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1. Summary

These drives can change the setting of MEMORY HiLOGGER and read from MEMORY HiLOGGER. These drives are divided into some VI according to function. In this version, These drives can not deal with all control commands of MEMORY HiLOGGER INTERFACE.

These drives can control change the setting of LR8410 WIRELESS LOGGING STATION or LR8416 HEAT FLOW LOGGER or LR8400,LR8401,LR8402 MEMORY HiLOGGER through TCP/IP(LAN) and USB[Communication Device Class(CDC)].

(USB communication uses Driver in attachment CD of LR8410,LR8416 or LR8400.)

These drives can control change the setting of 8423 MEMORY HiLOGGER through TCP/IP(LAN)

2. Prerequisite condition

The following is the prerequisite condition of using these drive

- Knows LabVIEW

3. How to use driver

Searchs for the VI(driver) which deals with the control command of MEMORY HiLOGGER from program library, Connects the VISA session opened. Sets the Set/query, It is necessary to select the right parameters when performing setting, It is necessary to set header to OFF when performing querying.

All of the drivers have 2 common inputs and 2 common outputs as the following

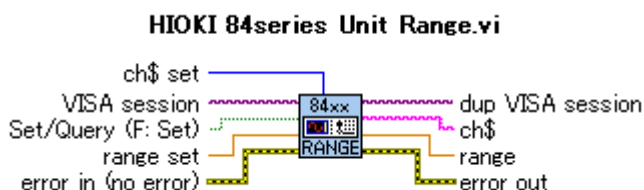
input

VISA session	on the top-left
error in (no error)	on the bottom-left

output

dup VISA session	on the top-right
error out	on the bottom-right

Example: HIOKI84series Unit Range.vi.



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4. Direction for driver use

4-1. Sort of Vi

The following is about drivers which are in program library.

	Name	Function / Communication command
1	HIOKI 84series IDN.vi	Queries device ID. *IDN?
2	HIOKI 84series OPT.vi	Queries device option provision. *OPT?
3	HIOKI 84series Reset.vi	Initializes the unit. *RST
4	HIOKI 84series TST.vi	Queries the result of ROM/RAM check. *TST?
5	HIOKI 84series OPC.vi	Replies with ASCII[1] after execution is completed. *OPC *OPC?
6	HIOKI 84series WAI.vi	After the execution of the command is completed, subsequently performs the following command. *WAI
7	HIOKI 84series CLS.vi	Clears the status bytes and associated queues(except for the output queue). *CLS
8	HIOKI 84series ESR.vi	Reads out and clears the contents of the standard even status register(ESR) *ESR?
9	HIOKI 84series STB.vi	Reads the status byte and MSS bit, without performing serial polling *STB
10	HIOKI 84series ESR0.vi	Reads event status register 0 (ESR0). :ESR0?
11	HIOKI 84series Start.vi	Performs starting. (Same as the START key of the unit) :START
12	HIOKI 84series Stop.vi	Performs stopping. (Same as the STOP key of the unit) :STOP
13	HIOKI 84series Abort.vi	Aborts processing. :ABORT
14	HIOKI 84series Conf Sample.vi	Changes or queries the recording interval . :CONFigure:SAMPlE A :CONFigure:SAMPlE?
15	HIOKI 84series Conf Rectime.vi	Sets or queries the recording time. :CONFigure:RECTime A,B,C,D :CONFigure:RECTime?

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	Name	Function / Communication command
16	HIOKI 84series Conf Tdiv.vi	Sets or queries the time axis range. (for LR8410,LR8416,LR8400,LR8401,LR8402) :CONFigure:TDIV A :CONFigure:TDIV?
17	HIOKI 84series Unit Filter.vi	Sets or queries input channel filter. :UNIT:FILTer A\$:UNIT:FILTer?
18	HIOKI 84series Unit Wire.vi	Sets or queries input disconnection detection for tc mode (for LR8410,LR8416,LR8400,LR8401,LR8402) :UNIT:WIRE A\$:UNIT:WIRE?
19	HIOKI 84series Unit Wire_8423.vi	Sets or queries input disconnection detection for tc mode (for 8423) :UNIT:WIRE unit\$,ch\$,A\$:UNIT:WIRE? unit\$,ch\$
20	HIOKI 84series Unit Astore.vi	Sets or queries the store enable or disable for channel data record (for LR8400,LR8401,LR8402) :UNIT:STORe ch\$,A\$:UNIT:STORe? ch\$
21	HIOKI 84series Unit Astore_LR8410.vi	Sets or queries the store enable or disable for channel data record (for LR8410,LR8416) :UNIT:STORe ch\$,A\$:UNIT:STORe? ch\$
22	HIOKI 84series Unit Astore_8423.vi	Sets or queries the store enable or disable for channel data record. (for 8423) :UNIT:STORe unit\$,ch\$,A\$:UNIT:STORe? unit\$,ch\$
23	HIOKI 84series Unit Inmode.vi	Sets or queries the measurement mode of an input channel (for LR8400,LR8401,LR8402) :UNIT:INMDe ch\$,A\$:UNIT:INMDe? ch\$
24	HIOKI 84series Unit Inmode_LR8410.vi	Sets or queries the measurement mode of an input channel (for LR8410) :UNIT:INMDe ch\$,A\$:UNIT:INMDe? ch\$
25	HIOKI 84series Unit Inmode_LR8416.vi	Sets or queries the measurement mode of an input channel (for LR8416) :UNIT:INMDe ch\$,A\$:UNIT:INMDe? ch\$

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	Name	Function / Communication command
26	HIOKI 84series Unit Inmode_8423.vi	Sets or queries the measurement mode of an input channel (for 8423) :UNIT:INMOde unit\$,ch\$,A\$:UNIT:INMOde? unit\$,ch\$
27	HIOKI 84series Unit Range.vi	Sets or queries the measurement range of an input channel (for LR8400,LR8401,LR8402) :UNIT:RANGe ch\$,A :UNIT:RANGe? ch\$
28	HIOKI 84series Unit Range_LR8410.vi	Sets or queries the measurement range of an input channel (for LR8410,LR8416) :UNIT:RANGe ch\$,A :UNIT:RANGe? ch\$
29	HIOKI 84series Unit Range_8423.vi	Sets or queries the measurement range of an input channel (for 8423) :UNIT:RANGe unit\$,ch\$,A :UNIT:RANGe? unit\$,ch\$
30	HIOKI 84series Unit Sensor.vi	Sets or queries the sensor kind for tc mode (for LR8400,LR8401,LR8402) :UNIT:SENSor ch\$,A\$:UNIT:SENSor? ch\$
31	HIOKI 84series Unit Sensor_LR8410.vi	Sets or queries the sensor kind for tc mode (for LR8410,LR8416) :UNIT:SENSor ch\$,A\$:UNIT:SENSor? ch\$
32	HIOKI 84series Unit Sensor_8423.vi	Sets or queries the sensor kind for tc mode (for 8423) :UNIT:SENSor unit\$,ch\$,A\$:UNIT:SENSor? unit\$,ch\$
33	HIOKI 84series Unit Rjc.vi	Sets or queries the point of contact compensation for tc mode (for LR8400,LR8401,LR8402) :UNIT:RJC ch\$,A :UNIT:RJC? ch\$
34	HIOKI 84series Unit Rjc_LR8410.vi	Sets or queries the point of contact compensation for tc mode (for LR8410,LR8416) :UNIT:RJC ch\$,A :UNIT:RJC? ch\$

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	Name	Function / Communication command
35	HIOKI 84series Unit Rjc_8423.vi	Sets or queries the point of contact compensation for tc mode. (for 8423) :UNIT:RJC unit\$,ch\$,A\$:UNIT:RJC? unit\$,ch\$
36	HIOKI 84series Unit Rconnect.vi	Sets or queries the connect kind for rtd mode (for LR8400,LR8401,LR8402) :UNIT:RCONnect ch\$,A\$:UNIT:RCONnect? ch\$
37	HIOKI 84series Unit Rconnect_LR8410.vi	Sets or queries the connect kind for rtd mode (for LR8410,LR8416) :UNIT:RCONnect ch\$,A\$:UNIT:RCONnect? ch\$
38	HIOKI 84series Unit Rconnect_8423.vi	Sets or queries the connect kind for rtd mode (for 8423) :UNIT:RCONnect unit\$,ch\$,A\$:UNIT:RCONnect? unit\$,ch\$
39	HIOKI 84series Unit Rtype.vi	Sets or queries the rtd kind for rtd mode (for LR8400,LR8401,LR8402) :UNIT:RTYPE ch\$,A\$:UNIT:RTYPE? ch\$
40	HIOKI 84series Unit Rtype_LR8410.vi	Sets or queries the rtd kind for rtd mode (for LR8410,LR8416) :UNIT:RTYPE ch\$,A\$:UNIT:RTYPE? ch\$
41	HIOKI 84series Unit Rtype_8423.vi	Sets or queries the rtd kind for rtd mode (for 8423) :UNIT:RTYPE unit\$,ch\$,A\$:UNIT:RTYPE? unit\$,ch\$
42	HIOKI 84series Unit Pstore.vi	Sets or queries the store enable or disable for pulse channel data record (for LR8400,LR8401,LR8402) :UNIT:STORe ch\$,A\$:UNIT:STORe? ch\$
43	HIOKI 84series Unit Plslogic.vi	Sets or queries the pulse or logic (for LR8400,LR8401,LR8402) :UNIT:PLSLogic pls\$,A\$:UNIT:PLSLogic? pls\$

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44	HIOKI 84series Unit Plslogic_8423.vi	Sets or queries the pulse or logic (for 8423) :UNIT:PLSLogic unit\$,ch\$,A\$:UNIT:PLSLogic? unit\$,ch\$
45	HIOKI 84series Unit Pinmode.vi	Sets or queries the measurement mode of an input pulse channel (for LR8400,LR8401,LR8402) :UNIT:PINMOde pls\$,A\$:UNIT:PINMOde? pls\$
46	HIOKI 84series Unit Pinmode_8423.vi	Sets or queries the measurement mode of an input pulse channel. (for 8423) :UNIT:PINMOde unit\$,ch\$,A\$:UNIT:PINMOde? unit\$,ch\$
47	HIOKI 84series Unit Pcomode.vi	Sets or queries the count mode of an input pulse channel (for LR8400,LR8401,LR8402) :UNIT:PCOMode pls\$,A\$:UNIT:PCOMode? pls\$
48	HIOKI 84series Unit Pcomode_8423.vi	Sets or queries the count mode of an input pulse channel (for 8423) :UNIT:PCOMode unit\$,ch\$,A\$:UNIT:PCOMode? unit\$,ch\$
49	HIOKI 84series Unit Pcomode_LR8410.vi	Sets or queries the count mode of an input pulse channel (for LR8410,LR8416) :UNIT:PCOMode ch\$,A\$:UNIT:PCOMode? ch\$
50	HIOKI 84series Unit Pcount.vi	Sets or queries the pulse num per revolve (for LR8400,LR8401,LR8402) :UNIT:PCOUn t pls\$,A :UNIT:PCOUn t? pls\$
51	HIOKI 84series Unit Pcount_8423.vi	Sets or queries the pulse num per revolve (for 8423) :UNIT:PCOUn t unit\$,ch\$,A :UNIT:PCOUn t? unit\$,ch\$
52	HIOKI 84series Unit Pcount_LR8410.vi	Sets or queries the pulse num per revolve (for LR8410,LR8416) :UNIT:PCOUn t ch\$,A :UNIT:PCOUn t? ch\$

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	Name	Function / Communication command
53	HIOKI 84series Unit Pslope.vi	Sets or queries the pulse channel count slope (for LR8400,LR8401,LR8402) :UNIT:PSLOPe pls\$,A\$:UNIT:PSLOPe? pls\$
54	HIOKI 84series Unit Pslope_8423.vi	Sets or queries the pulse channel count slope (for 8423) :UNIT:PSLOPe unit\$,ch\$,A\$:UNIT:PSLOPe? unit\$,ch\$
55	HIOKI 84series Unit Pslope_LR8410.vi	Sets or queries the pulse channel count slope (for LR8410,LR8416) :UNIT:PSLOPe ch\$,A\$:UNIT:PSLOPe? ch\$
56	HIOKI 84series Unit Pthre.vi	Sets or queries the pulse threshold level (for LR8400,LR8401,LR8402) :UNIT:PTHRe? pls\$:UNIT:PTHRe pls\$,A\$
57	HIOKI 84series Unit Pthre_8423.vi	Sets or queries the pulse threshold level (for 8423) :UNIT:PTHRe unit\$,ch\$,A\$:UNIT:PTHRe? unit\$,ch\$
58	HIOKI 84series Unit Pthre_LR8410.vi	Sets or queries the pulse threshold level (for LR8410,LR8416) :UNIT:PTHRe ch\$,A\$:UNIT:PTHRe? ch\$
59	HIOKI 84series Unit Pfilter.vi	Sets or queries the pulse channel filter. (for LR8400,LR8401,LR8402) :UNIT:PFILTer pls\$,A\$:UNIT:PFILTer? pls\$
60	HIOKI 84series Unit Pfilter_8423.vi	Sets or queries the pulse channel filter (for 8423) :UNIT:PFILTer unit\$,ch\$,A\$:UNIT:PFILTer? unit\$,ch\$
61	HIOKI 84series Unit Pfilter_LR8410.vi	Sets or queries the pulse channel filter (for LR8410,LR8416) :UNIT:PFILTer ch\$,A\$:UNIT:PFILTer? ch\$

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	Name		Function / Communication command
62	HIOKI 84series Unit Cfilter_LR8410.vi		Sets or queries the clamp filter (for LR8410,LR8416) :UNIT:CFILTer ch\$,A\$:UNIT:CFILTer? ch\$
63	HIOKI 84series Unit Clamp_LR8410.vi		Sets or queries the clamp sensor (for LR8410,LR8416) :UNIT:CLAMp ch\$,A\$:UNIT:CLAMp? ch\$
64	HIOKI 84series Unit Cmode_LR8410.vi		Sets or queries the clamp mode (for LR8410,LR8416) :UNIT:CMOde ch\$,A\$:UNIT:CMOde? ch\$
65	HIOKI 84series Unit Czero_LR8410.vi		Sets or queries the clamp zero suppress (for LR8410,LR8416) :UNIT:CZEro ch\$,A\$:UNIT:CZEro? ch\$
66	HIOKI 84series Disp Adraw.vi		Sets or queries waveform display color (for LR8400,LR8401,LR8402) :DISPlay:DRAWing ch\$,A\$:DISPlay:DRAWing? ch\$
67	HIOKI 84series Disp Adraw_LR8410.vi	Disp	Sets or queries waveform display color (for LR8410,LR8416) :DISPlay:DRAWing ch\$,A\$:DISPlay:DRAWing? ch\$
68	HIOKI 84series Disp Pdraw.vi		Sets or queries pulse waveform display color (for LR8400,LR8401,LR8402) :DISPlay:PDRAWing pls\$,A\$:DISPlay:PDRAWing? pls\$
69	HIOKI 84series Trig Mode.vi		Sets or queries trigger mode :TRIGger:MODE A\$:TRIGger:MODE?
70	HIOKI 84series Trig Detecttime.vi		Sets or queries the time point for trigger detection :TRIGger:DETECTTime A,B,C :TRIGger:DETECTTime?
71	HIOKI 84series Trig Detectdate.vi		Sets or queries the date for trigger detection :TRIGger:DETECTDate A,B,C :TRIGger:DETECTDate?

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72	HIOKI 84series Memo Chstore.vi	Queries stored record data for each channel (for LR8400,LR8401,LR8402) :MEMory:CHSTore? ch\$
73	HIOKI 84series Memo Chstore_LR8410.vi	Queries stored record data for each channel (for LR8410,LR8416) :MEMory:CHSTore? ch\$
74	HIOKI 84series Memo Chstore_8423.vi	Queries stored record data for each channel (for 8423) :MEMory:CHSTore? unit\$,ch\$
75	HIOKI 84series Memo Point.vi	Sets or queries the point in memory for input/output (for LR8400,LR8401,LR8402) :MEMory:POINT ch\$,A :MEMory:POINT?
76	HIOKI 84series Memo Point_LR8410.vi	Sets or queries the point in memory for input/output (for LR8410,LR8416) :MEMory:POINT ch\$,A :MEMory:POINT?
77	HIOKI 84series Memo Point_8423.vi	Sets or queries the point in memory for input/output (for 8423) :MEMory:POINT unit\$,ch\$,A :MEMory:POINT?
78	HIOKI 84series Memo Apoint.vi	Sets or queries the point in memory for input/output when longer data is stored than the inside memory) (for LR8400,LR8401,LR8402) :MEMory:APOINT ch\$,A :MEMory:APOINT?
79	HIOKI 84series Memo Apont_LR8410.vi	Sets or queries the point in memory for input/output when longer data is stored than the inside memory) (for LR8410,LR8416) :MEMory:APOINT ch\$,A :MEMory:APOINT?
80	HIOKI 84series Memo Apont_8423.vi	Sets or queries the point in memory for input/output. (when longer data is stored than the inside memory) (for 8423) :MEMory:APOINT unit\$,ch\$,A :MEMory:APOINT? ch\$ (unit\$は返りません)

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	Name	Function / Communication command
81	HIOKI 84series Memo Maxpoint.vi	Queries the number of data samples stored :MEMory:MAXPoint?
82	HIOKI 84series Memo Amaxpoint.vi	Queries the number of data samples stored. (when longer data is stored than the inside memory) :MEMory:AMAXPoint?
83	HIOKI 84series Memo Toppoint.vi	Queries the top of data samples stored (when longer data is stored than the inside memory) :MEMory:TOPPoint?
84	HIOKI 84series Memo Adata.vi	Inputs data to memory, or outputs stored data :MEMory:ADATa B,C,... :MEMory:ADATa? A
85	HIOKI 84series Memo Vdata.vi	Inputs voltage data to memory, or outputs voltage data from memory :MEMory:VDATa B,C,... :MEMory:VDATa? A
86	HIOKI 84series Memo Getreal.vi	Captures real time data :MEMory:GETReal
87	HIOKI 84series Memo Areal.vi	Outputs real time data (in ASCII) (for LR8400,LR8401,LR8402) :MEMory:AREAI? ch\$
88	HIOKI 84series Memo Areal_LR8410.vi	Outputs real time data (in ASCII) (for LR8410,LR8416) :MEMory:AREAI? ch\$
89	HIOKI 84series Memo Areal_8423.vi	Outputs real time data (in ASCII) (for 8423) :MEMory:AREAI? unit\$,ch\$
90	HIOKI 84series Memo Vreal.vi	Outputs real time data (voltage values). (for LR8400,LR8401,LR8402) :MEMory:VREAI? ch\$
91	HIOKI 84series Memo Vreal_LR8410.vi	Outputs real time data (voltage values). (for LR8410,LR8416) :MEMory:VREAI? ch\$
92	HIOKI 84series Memo Vreal_8423.vi	Outputs real time data (voltage values). (for 8423) :MEMory:VREAI? unit\$,ch\$
93	HIOKI 84series Memo Ratio.vi	Outputs ratio and offset (for LR8400,LR8401,LR8402)
94	HIOKI 84series Memo Ratio_LR8410.vi	Outputs ratio and offset (for LR8410)
95	HIOKI 84series Memo Ratio_LR8416.vi	Outputs ratio and offset (for LR8416)
96	HIOKI 84series Memo Ratio_8423.vi	Outputs ratio and offset (for 8423)

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	Name	Function / Communication command
97	HIOKI 84series Scal Set.vi	Sets and queries the scaling kind (for LR8400,LR8401,LR8402) :SCALing:SET ch\$,A\$:SCALing:SET? ch\$
98	HIOKI 84series Scal Set_LR8410.vi	Sets and queries the scaling kind (for LR8410,LR8416) :SCALing:SET ch\$,A\$:SCALing:SET? ch\$
99	HIOKI 84series Scal Set_8423.vi	Sets and queries the scaling kind (for 8423) :SCALing:SET unit\$,ch\$,A\$:SCALing:SET? unit\$,ch\$
100	HIOKI 84series Scal Volt.vi	Sets and queries the scaling conversion value (for LR8400,LR8401,LR8402) :SCALing:VOLT ch\$,A :SCALing:VOLT? ch\$
101	HIOKI 84series Scal Volt_LR8410.vi	Sets and queries the scaling conversion value (for LR8410,LR8416) :SCALing:VOLT ch\$,A :SCALing:VOLT? ch\$
102	HIOKI 84series Scal Volt_8423.vi	Sets and queries the scaling conversion value (for 8423) :SCALing:VOLT unit\$,ch\$,A :SCALing:VOLT? unit\$,ch\$
103	HIOKI 84series Scal Offset.vi	Sets and queries the scaling offset (for LR8400,LR8401,LR8402) :SCALing:OFFSet ch\$,A :SCALing:OFFSet? ch\$
104	HIOKI 84series Scal Offset_LR8410.vi	Sets and queries the scaling offset (for LR8410,LR8416) :SCALing:OFFSet ch\$,A :SCALing:OFFSet? ch\$
105	HIOKI 84series Scal Offset_8423.vi	Sets and queries the scaling offset (for 8423) :SCALing:OFFSet unit\$,ch\$,A :SCALing:OFFSet? unit\$,ch\$

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The following is about other than the drivers which are in program library.



	Name	Function
1	HIOKI 84series Initialize.vi	Opens the VISA session, Initializes the interface or the MEMORY HiLOGGER.
2	HIOKI 84series Close.vi	Closes the VISA session.
3	Wait.vi	Sets the waiting time
4	HIOKI 84series DEMOLR8400.vi	It is a demo program for LR8400 MEMORY HiLOGGER
5	HIOKI 84series DEMOLR8410.vi	It is a demo program for LR8410 WIRELESS LOGGING STATION
6	HIOKI 84series DEMOLR8416.vi	It is a demo program for LR8416 HEAT FLOW LOGGER
7	HIOKI 84series DEMO8423.vi	It is a demo program for 8423 MEMORY HiLOGGER

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4-2. The common input and common output of drivers

All of the drivers have common inputs and outputs. The following is the explanation.

4-2-1. The common input of driver.

Name	Data type	Explanation
VISA Session		VISA session
error in (no error)		The input of error(refer to the manual of LabVIEW to get details). Initialized value: no error.

4-2-2. The common output of driver

Name	Data type	Explanation
dup VISA Session		The copy of VISA session.
error out		The output of error(refer to the manual of LabVIEW to get details).

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4-3. Details of VI

4-3-1. HIOKI 84series IDN.vi

Queries device ID.



Name	Data type	Explanation
Instrument ID		The result of querying the device ID *

- * First field: Manufacturer's name
- Second field: Model name
- Third field: Serial number (not used: 0)
- Fourth field Software version

Reference command (the 8423.)

(1) *IDN? --- Queries device ID.

Syntax (query) *IDN?
(response) HIOKI, 8423, 0, V 1.00
~~~~~ ^ ~~~~~

1. 2. 3. 4.

Note

1. First field Manufacturer's name
2. Second field Model name
3. Third field Serial number (not used: 0)
4. Fourth field Software version

#### Reference command (the LR8400,LR8401,LR8402 command.)

(1) \*IDN? --- Queries device ID.

Syntax (query) \*IDN?  
(response) HIOKI, LR8400, 100312345, V 1.00  
~~~~~ ^ ~~~~~

1. 2. 3. 4.

Note

1. First field Manufacturer's name
2. Second field Model name
3. Third field Serial number
4. Fourth field Software version

| | | |
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Reference command (the LR8410,LR8416 command.)

(1) *IDN? --- Queries device ID.

| | | |
|--------|------------|---------------------------------------|
| Syntax | (query) | *IDN? |
| | (response) | HIOKI,LR8410,130512345,V1.00
~~~~~ |

| | | | | |
|------|--|----|----|----|
| | 1. | 2. | 3. | 4. |
| Note | 1. First field Manufacturer's name
2. Second field Model name
3. Third field Serial number
4. Fourth field Software version | | | |

| | |
|------|---|
| Note | In LR8416, the response HIOKI,LR8416,140312345,V1.00 returns. |
|------|---|

| | | |
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4-3-2. HIOKI 84series OPT.vi

Queries device option provision.



| Name | Data type | Explanation |
|--------|-----------|--|
| Option | | The result of querying the device option provision * |

* 8423 (return unit kind for each unit)

0=not present

1= 8948 Voltage/Temp Unit

2= 8996 Digital/Pulse Unit

3= 8949 Universal Unit

4= 8997 Alarm Unit

*LR8400,LR8401,LR8402 (return unit kind for each unit)

0=not present

1= LR8500 Voltage/Temp Unit

2= LR8501 Universal Unit

*LR8410,LR8416 (return unit kind for each unit)

0=not present

1= LR8510 Wireless Voltage/Temp Unit

2= LR8511 Wireless Universal Unit

3= LR8512 Wireless Pulse Logger

4= LR8513 Wireless Clamp Logger

5= LR8514 Wireless Humidity Logger

6= LR8515 Wireless Voltage/Temp Logger

7= LR8520 Wireless Fungal Logger

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Reference command (the 8423 command.)

(2) *OPT? --- Queries device option provision.

| | | |
|--------|------------|---|
| Syntax | (query) | *OPT? |
| | (response) | A1,A2,A3,A4,A5,A6,A7,A8<NR1>(8423) A=0 to 4 |
| | | 0=not present |
| | | 1= 8948 Voltage/Temp Unit |
| | | 2= 8996 Digital/Pulse Unit |
| | | 3= 8949 Universal Unit |
| | | 4= 8997 Alarm Unit |

Explanation Whether or not input channel present is returned as an NR1 numerical value.

Reference command (the LR8400,LR8401,LR8402 command.)

(2) *OPT? --- Queries device option provision.

| | | |
|--------|------------|------------------------------------|
| Syntax | (query) | *OPT? |
| | (response) | A1,A2,A3,A4,A5,A6,A7<NR1> A=0 to 2 |
| | | 0=not present |
| | | 1= LR8500 Voltage/Temp Unit |
| | | 2= LR8501 Universal Unit |

Explanation Whether or not input channel present is returned as an NR1 numerical value.

Reference command (the LR8410,LR8416 command.)

(2) *OPT? --- Queries device option provision.

| | | |
|--------|------------|--|
| Syntax | (query) | *OPT? |
| | (response) | A1,A2,A3,A4,A5,A6,A7<NR1> A=0 to 7 |
| | | 0=not present |
| | | 1= LR8510 Wireless Voltage/Temp Unit |
| | | 2= LR8511 Wireless Universal Unit |
| | | 3= LR8512 Wireless Pulse Logger |
| | | 4= LR8513 Wireless Clamp Logger |
| | | 5= LR8514 Wireless Humidity Logger |
| | | 6= LR8515 Wireless Voltage/Temp Logger |
| | | 7= LR8520 Wireless Fungal Logger |

Explanation Whether or not input channel present is returned as an NR1 numerical value.

| | | |
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4-3-3. HIOKI 84series Reset.vi

Initializes the unit.



| Name | Data type | Explanation |
|------|-----------|--|
| | | There is no input and output except common inputs and common outputs |

Reference command (the 8423 command.)

(1) *RST --- Device initial setting.

Syntax (command) *RST

Explanation Initializes the unit (same as system reset).

Note It does not clear USB,LAN related items.
(the event registers, the enable registers, the input buffer and the output queue)
Time is required to the end of a *RST command.
Please send the next command after wait for the completion
of an initialization and send *OPC? after *RST, in the case
that you want to send the next command.

Reference command (the LR8400,LR8401,LR8402 command.)

(1) *RST --- Device initial setting.

Syntax (command) *RST

Explanation Initializes the unit (same as system reset).

Note It does not clear USB,LAN related items.
(the event registers, the enable registers, the input buffer and the output queue)
Time is required to the end of a *RST command.
Please send the next command after wait for the completion
of an initialization and send *OPC? after *RST, in the case
that you want to send the next command.

Reference command (the LR8410,LR8416 command.)

(1) *RST --- Device initial setting.

Syntax (command) *RST

Explanation Initializes the unit (same as system reset).

Note It does not clear USB,LAN related items.
(the event registers, the enable registers, the input buffer and the output queue)
Time is required to the end of a *RST command.
Please send the next command after wait for the completion
of an initialization and send *OPC? after *RST, in the case
that you want to send the next command.

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4-3-4. HIOKI 84series TST.vi

Queries the result of ROM/RAM check.

HIOKI 84series TST.vi



| Name | Data type | Explanation |
|--------|------------|--|
| Answer | I32 | The result of ROM/RAM check.

Output:
0: normal
1: failure |

Reference command (the 8423 command.)

(2) *TST? --- Queries the result of the ROM/RAM check.

Syntax (query) *TST?
(response) A <NR1>
A = 0, 1
0: normal
1: failure

Explanation The result of the ROM/RAM check of the unit is returned as an NR1 numerical value.

Reference command (the LR8400,LR8401,LR8402 command.)

(2) *TST? --- Queries the result of the ROM/RAM check.

Syntax (query) *TST?
(response) A <NR1>
A = 0, 1
0: normal
1: failure

Explanation The result of the ROM/RAM check of the unit is returned as an NR1 numerical value.

Reference command (the LR8410,LR8416 command.)

(2) *TST? --- Queries the result of the ROM/RAM check.

Syntax (query) *TST?
(response) A <NR1>
A = 0, 1
0: normal
1: failure

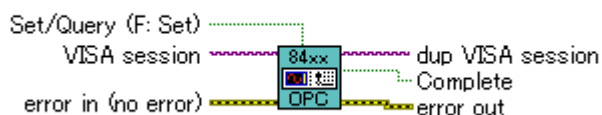
Explanation The result of the ROM/RAM check of the unit is returned as an NR1 numerical value.

| | | |
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4-3-5. HIOKI 84series OPC.vi

Replies with ASCII[1] after execution is completed.

HIOKI 84series OPC.vi



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function.
Valid range; False(=set: Default), True(=Query) |
| Complete | | The result of querying
Output range:
False(=All action has not been completed during execution, or, error)
True(=All action has not been completed during execution) |

Reference command (the 8423 command.)

(1) *OPC --- After all action has been completed during execution, sets the LSB (bit 0) of SESR (the standard event status register).

Syntax (command) *OPC

Explanation When the command preceding the *OPC command completes execution, the LSB of SESR is set.

Example A\$;B\$;*OPC;C\$
(After the execution of the commands A\$ and B\$ is completed, the LSB of SESR is set.)

(2) *OPC? --- After execution is completed, replies with ASCII [1].

Syntax (query) *OPC?
(response) 1

Explanation When the command preceding the *OPC command completes execution, the response of ASCII [1] is made.

| | | |
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Reference command (the LR8400,LR8401,LR8402 command.)

- (1) *OPC --- After all action has been completed during execution, sets the LSB (bit 0) of SESR (the standard event status register).

Syntax (command) *OPC

Explanation When the command preceding the *OPC command completes execution, the LSB of SESR is set.

Example A\$;B\$;*OPC;C\$
(After the execution of the commands A\$ and B\$ is completed, the LSB of SESR is set.)

Note Please do not use it for the watch of the start processing when the record time continuousness is turning on.

- (2) *OPC? --- After execution is completed, replies with ASCII [1].

Syntax (query) *OPC?
(response) 1

Explanation When the command preceding the *OPC command completes execution, the response of ASCII [1] is made.

Note Please do not use it for the watch of the start processing when the record time continuousness is turning on.

Reference command (the LR8410,LR8416 command.)

- (1) *OPC --- After all action has been completed during execution, sets the LSB (bit 0) of SESR (the standard event status register).

Syntax (command) *OPC

Explanation When the command preceding the *OPC command completes execution, the LSB of SESR is set.

Example A\$;B\$;*OPC;C\$
(After the execution of the commands A\$ and B\$ is completed, the LSB of SESR is set.)

Note Please do not use it for the watch of the start processing when the record time continuousness is turning on.

- (2) *OPC? --- After execution is completed, replies with ASCII [1].

Syntax (query) *OPC?
(response) 1

Explanation When the command preceding the *OPC command completes execution, the response of ASCII [1] is made.

Note Please do not use it for the watch of the start processing when the record time continuousness is turning on.

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4-3-6. HIOKI 84series WAI.vi

After the execution of the command is completed, subsequently performs the following command.



| Name | Data type | Explanation |
|------|-----------|--|
| | | There is no input and output except common inputs and common outputs |

Reference command (the 8423 command.)

(3) *WAI --- After the execution of the command is completed, subsequently performs the following command.

Syntax (command) *WAI

Example A\$;B\$;*WAI;C\$

The command C\$ following *WAI is not executed until the execution of the commands A\$ and B\$ is completed.

Note Please do not use it for the watch of the start processing when the record time continuousness is turning on.

Reference command (the LR8400,LR8401,LR8402 command.)

(3) *WAI --- After the execution of the command is completed, subsequently performs the following command.

Syntax (command) *WAI

Example A\$;B\$;*WAI;C\$

The command C\$ following *WAI is not executed until the execution of the commands A\$ and B\$ is completed.

Note Please do not use it for the watch of the start processing when the record time continuousness is turning on.

Reference command (the LR8410,LR8416 command.)

(3) *WAI --- After the execution of the command is completed, subsequently performs the following command.

Syntax (command) *WAI

Example A\$;B\$;*WAI;C\$

The command C\$ following *WAI is not executed until the execution of the commands A\$ and B\$ is completed.

Note Please do not use it for the watch of the start processing when the record time continuousness is turning on.

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4-3-7. HIOKI 84series CLS.vi

Clears the status bytes and associated queues(except for the output queue).



| Name | Data type | Explanation |
|------|-----------|--|
| | | There is no input and output except common inputs and common outputs |

Reference command (the 8423 command.)

(1) *CLS --- Clears the status byte and associated queues
(except for the output queue).

Syntax (command) *CLS

Explanation This instruction clears the event register associated
with each bit of the status byte register.
It also clears the status byte register.

Note Because it does not clear the output queue, it has no
effect upon bit 4 (MAV) of the status byte.

Reference command (the LR8400,LR8401,LR8402 command.)

(1) *CLS --- Clears the status byte and associated queues
(except for the output queue).

Syntax (command) *CLS

Explanation This instruction clears the event register associated
with each bit of the status byte register.
It also clears the status byte register.

Note Because it does not clear the output queue, it has no
effect upon bit 4 (MAV) of the status byte.

Reference command (the LR8410,LR8416 command.)

(1) *CLS --- Clears the status byte and associated queues
(except for the output queue).

Syntax (command) *CLS

Explanation This instruction clears the event register associated
with each bit of the status byte register.
It also clears the status byte register.

Note Because it does not clear the output queue, it has no
effect upon bit 4 (MAV) of the status byte.

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4-3-8. HIOKI 84series ESR.vi

Reads out and clears the contents of the standard even status register(ESR)



| Name | Data type | Explanation |
|--------------|--|--|
| Setted Bits | [TF] | The result(bit array) of querying the SESR
Output range: False(=0) True(=1) |
| Output Value | [I32] | The result(value) of querying the SESR
Output range: 0 – 255 |

Reference command (the 8423 command.)

(2) *ESR? --- Reads out and clears the contents of the standard event status register (SESR).

Syntax (query) *ESR?
(response) A <NR1>

Explanation The contents of SESR are returned as an NR1 numerical value.

Reference command (the LR8400,LR8401,LR8402 command.)

(2) *ESR? --- Reads out and clears the contents of the standard event status register (SESR).

Syntax (query) *ESR?
(response) A <NR1>

Explanation The contents of SESR are returned as an NR1 numerical value.

Reference command (the LR8410,LR8416 command.)

(2) *ESR? --- Reads out and clears the contents of the standard event status register (SESR).

Syntax (query) *ESR?
(response) A <NR1>

Explanation The contents of SESR are returned as an NR1 numerical value.

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4-3-9. HIOKI 84series STB.vi

Reads the status byte and MSS bit, without performing serial polling.



| Name | Data type | Explanation |
|--------------|--|---|
| Setted Bits | [TF] | The result(bit array) of querying the status byte and MSS
Output range: False(=0) True(=1) |
| Output Value | I32 | The result(value) of querying the status byte and MSS
Output range: 0 – 255 |

Reference command (the 8423 command.)

(3) *STB? --- Reads the status byte and MSS bit, without performing serial polling.

Syntax (query) *STB?
(response) A <NR1>
A = 0 to 255

Explanation This is the same as reading out the status byte with serial polling.

Note Bit 6 is not RQS, but is MSS.

Reference command (the LR8400,LR8401,LR8402 command.)

(3) *STB? --- Reads the status byte and MSS bit.

Syntax (query) *STB?
(response) A <NR1>
A = 0 to 255

Explanation This is the same as reading out the status byte.

Note Bit 6 is not RQS, but is MSS.

Reference command (the LR8410,LR8416 command.)

(3) *STB? --- Reads the status byte and MSS bit.

Syntax (query) *STB?
(response) A <NR1>
A = 0 to 255

Explanation This is the same as reading out the status byte.

Note Bit 6 is not RQS, but is MSS.

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4-3-10. HIOKI 84series ESR0.vi

Reads event status register 0 (ESR0).



| Name | Data type | Explanation |
|--------------|-----------|--|
| Settled Bits | | The result(bit array) of querying the ESR0
Output range: False(=0) True(=1) |
| Output Value | | The result(value) of querying the ESR0
Output range: 0 - 255 |

Reference command (the 8423 command.)

(4) :ESR0? --- Reads event status register 0 (ESR0).

Syntax (query) :ESR0?
(response) A <NR1>
A = 0 to 255

Explanation The contents of ESR0 are returned as an NR1 numerical value, and ESR0 is cleared.

Reference command (the LR8400,LR8401,LR8402 command.)

(4) :ESR0? --- Reads event status register 0 (ESR0).

Syntax (query) :ESR0?
(response) A <NR1>
A = 0 to 255

Explanation The contents of ESR0 are returned as an NR1 numerical value, and ESR0 is cleared.

Reference command (the LR8410,LR8416 command.)

(4) :ESR0? --- Reads event status register 0 (ESR0).

Syntax (query) :ESR0?
(response) A <NR1>
A = 0 to 255

Explanation The contents of ESR0 are returned as an NR1 numerical value, and ESR0 is cleared.

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4-3-11. HIOKI 84series Start.vi

Performs starting. (Same as the START key of the unit)

HIOKI 84series Start.vi



| Name | Data type | Explanation |
|------|-----------|--|
| | | There is no input and output except common inputs and common outputs |

Reference command (the 8423 command.)

(1) Performs starting.

Syntax (command) :START

Explanation START waveform sampling.
Starts waveform sampling operation.

Reference command (the LR8400,LR8401,LR8402 command.)

(1) Performs starting.

Syntax (command) :START

Explanation START waveform sampling.
Starts waveform sampling operation.

Reference command (the LR8410,LR8416 command.)

(1) Performs starting.

Syntax (command) :START

Explanation START waveform sampling.
Starts waveform sampling operation.

| | | |
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4-3-12. HIOKI 84series Stop.vi

Performs stopping. (Same as the STOP key of the unit)



| Name | Data type | Explanation |
|------|-----------|--|
| | | There is no input and output except common inputs and common outputs |

Reference command (the 8423 command.)

(2) Performs stopping.

Syntax (command) :STOP

Explanation STOP waveform sampling.

Terminates at the instant that waveform sampling operation is completed.

Note :STOP command after it did the measurement for record time, when record time is except for a continuation, when you implement it 1 time it stops. It does not stop at the time of a continuation.:STOP command it stops when record time was implemented 2nd :STOP at the time of except for a continuation and also continuation, when you implement it twice.

Reference command (the LR8400,LR8401,LR8402 command.)

(2) Performs stopping.

Syntax (command) :STOP

Explanation STOP waveform sampling.

Terminates at the instant that waveform sampling operation is completed.

Note :STOP command after it did the measurement for record time, when record time is except for a continuation, when you implement it 1 time it stops. It does not stop at the time of a continuation.:STOP command it stops when record time was implemented 2nd :STOP at the time of except for a continuation and also continuation, when you implement it twice.

Reference command (the LR8410,LR8416 command.)

(2) Performs stopping.

Syntax (command) :STOP

Explanation STOP waveform sampling.

Terminates at the instant that waveform sampling operation is completed.

Note :STOP command after it did the measurement for record time, when record time is except for a continuation, when you implement it 1 time it stops. It does not stop at the time of a continuation.:STOP command it stops when record time was implemented 2nd :STOP at the time of except for a continuation and also continuation, when you implement it twice.

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4-3-13. HIOKI 84series Abort.vi

Aborts processing.

HIOKI 84series Abort.vi



| Name | Data type | Explanation |
|------|-----------|--|
| | | There is no input and output except common inputs and common outputs |

Reference command (the 8423 command.)

(3) Aborts processing.

Syntax (command) :ABORT

Explanation Force STOP waveform sampling. Terminates even if waveform sampling operation is not yet completed.

Note :ABORT command transmission after, please do so that you send the next command, after you wait for more than 0.2 seconds.

Reference command (the LR8400,LR8401,LR8402 command.)

(3) Aborts processing.

Syntax (command) :ABORT

Explanation Force STOP waveform sampling. Terminates even if waveform sampling operation is not yet completed.

Note :ABORT command transmission after, please do so that you send the next command, after you wait for more than 0.2 seconds.

Reference command (the LR8410,LR8416 command.)

(3) Aborts processing.

Syntax (command) :ABORT

Explanation Force STOP waveform sampling. Terminates even if waveform sampling operation is not yet completed.

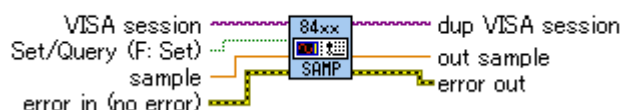
Note :ABORT command transmission after, please do so that you send the next command, after you wait for more than 0.2 seconds.

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4-3-14. HIOKI 84series Conf Sample.vi

Changes or queries the recording interval .

HIOKI 84series Conf Sample.vi



| Name | Data type | Explanation |
|------------------|-----------|--|
| Set/Query(F:Set) | | Selects the setting or the querying function.
Valid range; False(=set: Default), True(=Query) |
| sample set | | Sets the numerical value of the recording interval |
| sample | | The result of querying the recording interval |

Reference command (the 8423 command.)

(3) Sets and queries the recording interval (fast).

Syntax (command) :CONFigure:SAMPle A
(query) :CONFigure:SAMPle?
(response) A<NR3>

Explanation Sets the recording interval (fast) to a numerical value (unit seconds).
Returns the currently set value of the recording interval (fast)
as an NR3 numerical value.

(If an attempt is made to set the time axis range to
a non-permitted value, and there is a range above that
value, that range will be selected.)

(10ms=0.01, 20ms=0.02, 50ms=0.05

100ms=0.1, 200ms=0.2, 500ms=0.5

1s=1, 2s=2, 5s=5

10s=10, 20s=20,30s=30

1min=60, 2min=120, 5min=300

10min=600, 20min=1200, 30min=1800

1h=3600)

Example :CONFigure:SAMPle +100.0E-3

Sets the recording interval (fast) to 100ms.

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Reference command (the LR8400,LR8401,LR8402 command.)

(1) Sets and queries the recording interval.

Syntax (command) :CONFigure:SAMPle A
(query) :CONFigure:SAMPle?
(response) A<NR3>

Explanation Sets the recording interval to a numerical value (unit seconds).
Returns the currently set value of the recording interval
as an NR3 numerical value.

(If an attempt is made to set the time axis range to
a non-permitted value, and there is a range above that
value, that range will be selected.)

(10ms=0.01, 20ms=0.02, 50ms=0.05

100ms=0.1, 200ms=0.2, 500ms=0.5

1s=1, 2s=2, 5s=5, 10s=10, 20s=20,30s=30

1min=60, 2min=120, 5min=300

10min=600, 20min=1200, 30min=1800, 1h=3600)

Example :CONFigure:SAMPle +100.0E-3

Sets the recording interval to 100ms.

Note When either of CH2_1 to CH2_15 is turning on, the recording interval cannot be set to
10ms.

10ms and 20ms.

When either of CH3_1 to CH4_15 is turning on, the recording interval cannot be set to
When disconnection detection is ON, and either of CH2_1 to CH2_15 is turning on,
and the recording interval are set to 20ms, disconnection detection is changed to

turning off.

When disconnection detection is ON, and either of CH3_1 to CH4_15 is turning on,
and the recording interval are set to 50ms, disconnection detection is changed to

turning off.

Note The setting of time axis, recording time, pre-trigger, auto save, division time,
and calculation division time might be limited by a set value of interval.

Reference command (the LR8410,LR8416 command.)

(1) Sets and queries the recording interval.

Syntax (command) :CONFigure:SAMPle A
(query) :CONFigure:SAMPle?
(response) A<NR3>

Explanation Sets the recording interval to a numerical value (unit seconds).
Returns the currently set value of the recording interval
as an NR3 numerical value.

(If an attempt is made to set the time axis range to
a non-permitted value, and there is a range above that
value, that range will be selected.)

(100ms=0.1, 200ms=0.2, 500ms=0.5

1s=1, 2s=2, 5s=5, 10s=10, 20s=20,30s=30

1min=60, 2min=120, 5min=300

10min=600, 20min=1200, 30min=1800, 1h=3600)

Example :CONFigure:SAMPle +100.0E-3

Sets the recording interval to 100ms.

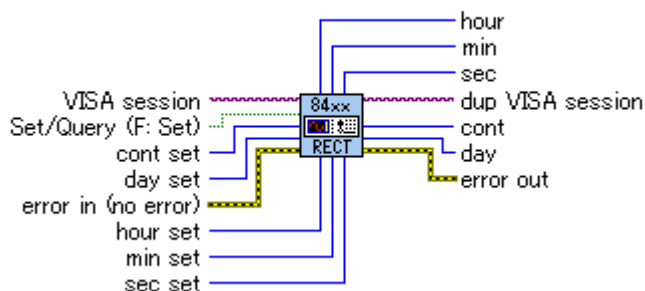
Note The setting of time axis, recording time, pre-trigger, auto save, division
time,
and calculation division time might be limited by a set value of interval.

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4-3-15. HIOKI 84series Conf Rectime.vi

Sets or queries the recording time.

HIOKI 84series Conf Rectime.vi



| Name | Data type | Explanation |
|------------------|-----------|--|
| Set/Query(F:Set) | | Selects the setting or the querying function.
Valid range; False(=set: Default), True(=Query) |
| Day set | | Sets the numerical value of the recording day |
| Hour set | | Sets the numerical value of the recording hour |
| Min set | | Sets the numerical value of the recording min |
| Sec set | | Sets the numerical value of the recording sec |
| Day | | The result of querying the numerical value of the recording day |
| Hour | | The result of querying the numerical value of the recording hour |
| Min | | The result of querying the numerical value of the recording min |
| sec | | The result of querying the numerical value of the recording sec |

Reference command (the 8423 command.)

(2) Sets and queries the recording time

Syntax (command) :CONFigure:RECTime A,B,C,D
(query) :CONFigure:RECTime?
(response) A,B,C,D

A=day :0 to 999(day)
B=hour:0 to 23(hour)
C=min :0 to 59(min)
D=sec :0 to 59(sec)
day,hour,min,sec<NR1>
0,0,0,0=cont

Explanation Sets the recording time to a numerical value.
Returns the currently set value of the recording time
as an NR1 numerical value.

Example :CONFigure:RECTime 0,0,0,10
Sets the recording time to 10sec.

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Reference command (the LR8400,LR8401,LR8402 command.)

(3) Sets and queries the recording time

Syntax (command) :CONFigure:RECTime A,B,C,D
(query) :CONFigure:RECTime?
(response) A,B,C,D
A=day :0 to 500(day)
B=hour:0 to 23(hour)
C=min :0 to 59(min)
D=sec :0 to 59(sec)
day,hour,min,sec<NR1>
0,0,0,0=cont

Explanation Sets the recording time to a numerical value.
Returns the currently set value of the recording time
as an NR1 numerical value.

Example :CONFigure:RECTime 0,0,0,10
Sets the recording time to 10sec.

Note The setting of recording time be limited by a set value of interval.

Note The setting of recording time might be limited by a set value of interval.

Reference command (the LR8410,LR8416 command.)

(3) Sets and queries the recording time

Syntax (command) :CONFigure:RECTime A,B,C,D
(query) :CONFigure:RECTime?
(response) A,B,C,D
A=day :0 to 500(day)
B=hour:0 to 23(hour)
C=min :0 to 59(min)
D=sec :0 to 59(sec)
day,hour,min,sec<NR1>
0,0,0,0=cont

Explanation Sets the recording time to a numerical value.
Returns the currently set value of the recording time
as an NR1 numerical value.

Example :CONFigure:RECTime 0,0,0,10
Sets the recording time to 10sec.

Note The setting of recording time be limited by a set value of interval.

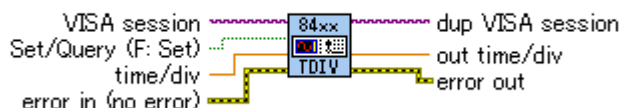
Note The setting of recording time might be limited by a set value of interval.

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4-3-16. HIOKI 84series Conf Tdiv.vi

Sets or queries the time axis range.

HIOKI 84series Conf Tdiv.vi



| Name | Data type | Explanation |
|------------------|-----------|--|
| Set/Query(F:Set) | | Selects the setting or the querying function.
Valid range; False(=set: Default), True(=Query) |
| time/div | | Sets the numerical value of the axis range (unit: s) * |
| out time/div | | The result of querying the time axis range (unit: s) |

* If an attempt is made to set the time axis range to a non-permitted value, and there is a range above that value, that range will be selected.

Reference command (the LR8400,LR8401,LR8402 command.)

(2) Sets and queries the time axis range

Syntax (command) :CONFigure:TDIV A
(query) :CONFigure:TDIV?
(response) A<NR3>

Explanation Sets the time axis range to a numerical value (unit seconds).
Returns the currently set value of the time axis range as an NR3 numerical value.
(If an attempt is made to set the time axis range to a non-permitted value, and there is a range above that value, that range will be selected.)
(Time axis range is possible only bigger setting than a recording interval.)
(100ms=0.1, 200ms=0.2, 500ms=0.5
1s=1, 2s=2, 5s=5
10s=10, 20s=20, 30s=30
1min=60, 2min=120, 5min=300
10min=600, 20min=1200, 30min=1800
1h=3600, 2h=7200, 5h=18000
10h=36000, 12h=43200, 1d=86400)

Example :CONFigure:TDIV +1.0E+0
Sets the time axis range to 1s.

Note The setting of time axis might be limited by a set value of interval.

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Reference command (the LR8410,LR8416 command.)

(2) Sets and queries the time axis range

Syntax (command) :CONFigure:TDIV A
(query) :CONFigure:TDIV?
(response) A<NR3>

Explanation Sets the time axis range to a numerical value (unit seconds).
Returns the currently set value of the time axis range
as an NR3 numerical value.
(If an attempt is made to set the time axis range to
a non-permitted value, and there is a range above that
value, that range will be selected.)
(Time axis range is possible only bigger setting than a recording
interval.)
(200ms=0.2, 500ms=0.5
1s=1, 2s=2, 5s=5
10s=10, 20s=20,30s=30
1min=60, 2min=120, 5min=300
10min=600, 20min=1200, 30min=1800
1h=3600, 2h=7200, 5h=18000
10h=36000, 12h=43200, 1d=86400)

Example :CONFigure:TDIV +1.0E+0
Sets the time axis range to 1s.

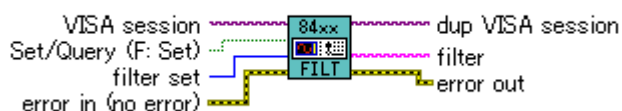
Note The setting of time axis might be limited by a set value of interval.

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4-3-17. HIOKI 84series Unit Filter.vi

Sets or queries input channel filter.

HIOKI 84series Unit Filter.vi



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| Filter set | | Specifies the input channel filter
Valid range: 0 (=OFF: Default), 1 (=ON) |
| filter | | The result of querying the input channel filter |

Reference command (the 8423 command.)

(3) Sets and queries the input channel filter (fast).

Syntax (command) :UNIT:FILTer A\$
(query) :UNIT:FILTer?
(response) A\$

A\$=OFF,50HZ,60HZ

Explanation Sets the input channel filter (fast).

Returns the input channel filter (fast) as character data.

Example :UNIT:FILTer 50HZ

Sets the input channel filter (fast) to 50HZ.

Reference command (the LR8400,LR8401,LR8402 command.)

(2) Sets and queries the input channel filter.

Syntax (command) :UNIT:FILTer A\$
(query) :UNIT:FILTer?
(response) A\$

A\$=OFF,50HZ,60HZ

Explanation Sets the input channel filter.

Returns the input channel filter as character data.

Example :UNIT:FILTer 50HZ

Sets the input channel filter to 50HZ.

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Reference command (the LR8410,LR8416 command.)

(2) Sets and queries the input channel filter.

Syntax (command) :UNIT:FILTer A\$
(query) :UNIT:FILTer?
(response) A\$

A\$=OFF,50HZ,60HZ

Explanation Sets the input channel filter.
Returns the input channel filter as character data.

Example :UNIT:FILTer 50HZ
Sets the input channel filter to 50HZ.

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4-3-18. HIOKI 84series Unit Wire.vi

Sets or queries input disconnection detection for tc mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| Wire set | | Specifies the disconnection detection for tc mode
Valid range: 0 (=OFF: Default), 1 (=ON) |
| wire | | The result of querying the disconnection detection for tc mode |

*LR8400,LR8401,LR8402

When the recording interval is 10ms, disconnection detection cannot turning on.

When the recording interval is 20ms, and either of CH2_1 to CH2_15 is turning on,
disconnection detection cannot turning on.

When the recording interval is 50ms, and either of CH3_1 to CH4_15 is turning on,
disconnection detection cannot turning on.

*LR8410

When the recording interval is 100ms, disconnection detection cannot turning on.

Reference command (the LR8400,LR8401,LR8402 command.)

(8) Sets and queries the disconnection detection for tc mode.

Syntax (command) :UNIT:WIRE A\$
(query) :UNIT:WIRE?
(response) A\$
A\$=OFF,ON

Explanation Sets the disconnection detection.
Returns the current disconnection detection as character data.

Example :UNIT:WIRE ON
Sets the point of contact compensation to on.

Note When the recording interval is 10ms, disconnection detection cannot turning on.
When the recording interval is 20ms, and either of CH2_1 to CH2_15 is turning on,
disconnection detection cannot turning on.
When the recording interval is 50ms, and either of CH3_1 to CH4_15 is turning on,
disconnection detection cannot turning on.

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Reference command (the LR8410,LR8416 command.)

(8) Sets and queries the disconnection detection for tc mode.

Syntax (command) :UNIT:WIRE A\$
(query) :UNIT:WIRE?
(response) A\$
A\$=OFF,ON

Explanation Sets the disconnection detection.
Returns the current disconnection detection as character data.

Example :UNIT:WIRE ON
Sets the disconnection detection to on.

Note When the recording interval is 100ms, disconnection detection cannot turning on.

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4-3-20. HIOKI 84series Unit Astore.vi

Sets or queries the store enable or disable for channel data record.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 59(=CH4_15) |
| store set | | Specifies the store enable or disable for channel data record |
| ch\$ | | Specified channel |
| store | | The result of querying the store enable or disable for channel data record |

- * When recording interval is 10ms and either of CH2_1 to CH2_15 is turning on, the recording interval change to 20ms.
When recording interval is 10ms,20ms and either of CH3_1 to CH4_15 is turning on, the recording interval change to 50ms.
When disconnection detection is ON, and the recording interval is 20ms, and either of CH2_1 to CH2_15 is turning on, disconnection detection is changed to turning off.
When disconnection detection is ON, and the recording interval is 50ms, and either of CH3_1 to CH4_15 is turning on, disconnection detection is changed to turning off.

Reference command (the LR8400,LR8401,LR8402 command.)

(1) Sets and queries the store enable or disable for channel data record.

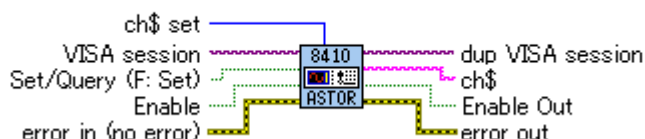
| | |
|-------------|---|
| Syntax | (command) :UNIT:STORe ch\$,A\$
(query) :UNIT:STORe? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH4_15, PLS1 to PLS8, LOG, ALARM, W1 to W30
A\$=OFF,ON |
| Explanation | Sets the store enable or disable for the channel designated by ch\$.
Returns the current store enable or disable for the channel designated by ch\$ as character data. |
| Example | :UNITSTORE CH1_1,ON
Sets the store for channel 1-1 to enable. |
| Note | CH1_1 to CH4_15 is effective only when LR8501 Universal Unit or LR8500 Volt/Temp Unit. |






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4-3-21. HIOKI 84series Unit Astore_LR8410.vi

Sets or queries the store enable or disable for channel data record.

HIOKI 84series Unit Astore_LR8410.vi



| Name | Data type | Explanation |
|------------------|---|---|
| Set/Query(F:Set) |  | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set |  | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| store set |  | Specifies the store enable or disable for channel data record |
| ch\$ |  | Specified channel |
| store |  | The result of querying the store enable or disable for channel data record |

Reference command (the LR8410,LR8416 command.)

(1) Sets and queries the store enable or disable for channel data record.

Syntax (command) :UNIT:STORe ch\$,A\$
(query) :UNIT:STORe? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_15,ALARM,W1 to W30
A\$=OFF,ON

Explanation Sets the store enable or disable for the channel designated by ch\$.
Returns the current store enable or disable for the channel designated by ch\$ as character data.

Example :UNIT:STORe CH1_1,ON

Sets the store for channel 1-1 to enable.

Note CH1_1 to CH7_15 is effective only when LR8511 Wireless Universal Unit or LR8510 Wireless Volt/Temp Unit's registered or LR8512 Wireless Pulse Logger or LR8513 Wireless Clamp Logger or LR8514 Wireless Humidity Logger or LR8515 Wireless Voltage/Temp Logger or LR8520 Wireless Fungal Logger's registered channel..

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4-3-22. HIOKI 84series Unit Astore_8423.vi

Sets or queries the store enable or disable for channel data record.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| store set | | Specifies the store enable or disable for channel data record |
| ch\$ | | Specified channel |
| store | | The result of querying the store enable or disable for channel data record |

Reference command (the 8423 command.)

(1) Sets and queries the store enable or disable for channel data record.

Syntax (command) :UNIT:STORe unit\$,ch\$,A\$
 (query) :UNIT:STORe? unit\$,ch\$
 (response) unit\$,ch\$,A\$
 unit\$=UNIT1 to UNIT8
 ch\$=CH1 to CH15
 A\$=OFF,ON

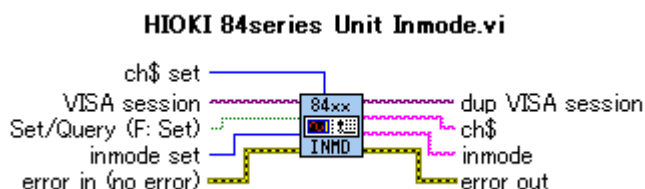
Explanation Sets the store enable or disable for the channel designated by unit\$,ch\$.
 Returns the current store enable or disable for the channel designated by unit\$,ch\$ as character data.

Example :UNITSTORe UNIT,CH1,ON
 Sets the store for UNIT 1 channel 1 to enable.

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4-3-23. HIOKI 84series Unit Inmode.vi

Sets or queries the measurement mode of an input channel.



| Name | Data type | Explanation |
|------------------|-----------|--|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 59(=CH4_15) |
| Mode set | | Specifies the measurement mode of an input channel
Valid range:
0(=VOLTAGE),1(=TC),2(=RTD),3(=HUMIDITY),4(=RESIST) * |
| ch\$ | | Specified channel |
| mode | | The result of querying the measurement mode of an input channel |

* RTD,RESIST is only LR8501 universal unit

Reference command (the LR8400,LR8401,LR8402 command.)

(3) Sets and queries the measurement mode of an input channel.

Syntax (command) :UNIT:INMDe ch\$,A\$
(query) :UNIT:INMDe? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH4_15
A\$=VOLTAGE,TC,RTD,HUMIDITY,RESIST

Explanation Sets the measurement mode for the channel designated by ch\$.
Returns the current measurement mode for the channel designated by ch\$ as character data.

Example :UNIT:INMDe CH1_1,VOLTAGE
Sets the measurement mode for unit 1,channel 1 to voltage.

Note RTD,RESIST is only LR8501 universal unit

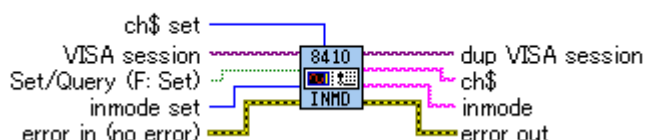
Note This command is effective only when LR8501 Universal Unit
or LR8500 Volt/Temp Unit.

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4-3-24. HIOKI 84series Unit Inmode_LR8410.vi

Sets or queries the measurement mode of an input channel.

HIOKI 84series Unit Inmode_LR8410.vi



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| Mode set | | Specifies the measurement mode of an input channel
Valid range:
0(=VOLTAGE),1(=TC),2(=RTD),3(=HUMIDITY),4(=RESIST)
5(=COUNT),6(=REVOLVE),7(=LOGIC),8(=CURRENT),
9(=TEMP),10(=FINDEX),11(=FGROWTH) * |
| ch\$ | | Specified channel |
| mode | | The result of querying the measurement mode of an input channel |

* The input kind which can be established depends on the wireless unit and wireless logger

Reference command (the LR8410 command.)

(3) Sets and queries the measurement mode of an input channel.

| | | |
|-------------|---|---|
| Syntax | (command) | :UNIT:INMode ch\$,A\$ |
| | (query) | :UNIT:INMode? ch\$ |
| | (response) | ch\$,A\$
ch\$=CH1_1 to CH7_15
A\$=VOLTAGE,TC,RTD,HUMIDITY,RESIST, HEAT ,
COUNT,REVOLVE,LOGIC,CURRENT,TEMP,FINDEX,FGROWTH
(HEAT is only for LR8416) |
| Explanation | Sets the measurement mode for the channel designated by ch\$.
Returns the current measurement mode for the channel designated by ch\$ as character data. | |
| Example | :UNIT:INMode CH1_1,VOLTAGE
Sets the measurement mode for unit 1,channel 1 to voltage. | |

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Note Input type that can be used is below.

VOLTAGE :LR8510 Wireless Volt/Temp Unit
 LR8511 Wireless Universal Unit
 LR8515 Wireless Voltage/Temp Logger

TC :LR8510 Wireless Volt/Temp Unit
 LR8511 Wireless Universal Unit
 LR8515 Wireless Voltage/Temp Logger

RTD :LR8511 Wireless Universal Unit

HUMIDITY:LR8511 Wireless Universal Unit
 LR8514 Wireless Humidity Logger
 LR8520 Wireless Fungal Logger

RESIST :LR8511 Wireless Universal Unit

~~HEAT :LR8510 Wireless Volt/Temp Unit~~
~~LR8511 Wireless Universal Unit~~
~~LR8515 Wireless Voltage/Temp Logger~~

COUNT :LR8512 Wireless Pulse Logger

REVOLVE :LR8512 Wireless Pulse Logger

LOGIC :LR8512 Wireless Pulse Logger

CURRENT :LR8513 Wireless Clamp Logger

TEMP :LR8514 Wireless Humidity Logger
 LR8520 Wireless Fungal Logger

FINDEX :LR8520 Wireless Fungal Logger

FGROWTH :LR8520 Wireless Fungal Logger

Note Measurement mode of LR8514 Wireless Humidity Logger and LR8520 Wireless Fungal Logger is fixed.

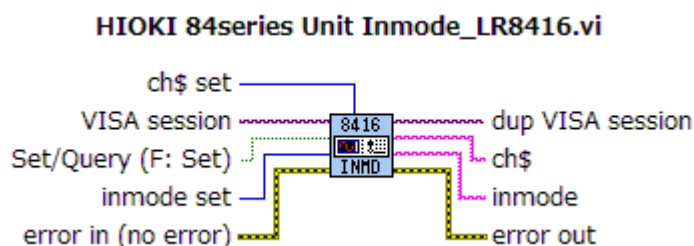
Note This command is effective only when LR8511 Wireless Universal Unit or LR8510 Wireless Volt/Temp Unit or LR8512 Wireless Pulse Logger or LR8513 Wireless Clamp Logger or LR8514 Wireless Humidity Logger or LR8515 Wireless Voltage/Temp Logger or LR8520 Wireless Fungal Logger's registered channel.

Note If you send this command, the waveform data in the internal memory is cleared.

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4-3-25. HIOKI 84series Unit Inmode_LR8416.vi

Sets or queries the measurement mode of an input channel.



| Name | Data type | Explanation |
|------------------|-----------|--|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| Mode set | | Specifies the measurement mode of an input channel
Valid range:
0(=VOLTAGE),1(=TC),2(=RTD),3(=HUMIDITY),4(=RESIST),
5(=COUNT),6(=REVOLVE),7(=LOGIC),8(=CURRENT),
9(=TEMP),10(=FINDEX),11(=FGROWTH),12(=HEAT) * |
| ch\$ | | Specified channel |
| mode | | The result of querying the measurement mode of an input channel |

* The input kind which can be established depends on the wireless unit and wireless logger

Reference command (the LR8416 command.)

(3) Sets and queries the measurement mode of an input channel.

Syntax (command) :UNIT:INMode ch\$,A\$
(query) :UNIT:INMode? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_15
A\$=VOLTAGE,TC,RTD,HUMIDITY,RESIST,HEAT,
COUNT,REVOLVE,LOGIC,CURRENT,TEMP,FINDEX,FGROWTH
(HEAT is only for LR8416)

Explanation Sets the measurement mode for the channel designated by ch\$.
Returns the current measurement mode for the channel designated by ch\$ as character data.

Example :UNIT:INMode CH1_1,VOLTAGE

Sets the measurement mode for unit 1,channel 1 to voltage.

Note RTD,HUMIDITY,RESIST is only LR8511 Wireless Universal Unit

Note This command is effective only when LR8511 Wireless Universal Unit or LR8510 Wireless Volt/Temp Unit's registered channel.

Note If you send this command, the waveform data in the internal memory is cleared.

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Note Input type that can be used is below.

VOLTAGE :LR8510 Wireless Volt/Temp Unit
LR8511 Wireless Universal Unit
LR8515 Wireless Voltage/Temp Logger

TC :LR8510 Wireless Volt/Temp Unit
LR8511 Wireless Universal Unit
LR8515 Wireless Voltage/Temp Logger

RTD :LR8511 Wireless Universal Unit

HUMIDITY:LR8511 Wireless Universal Unit
LR8514 Wireless Humidity Logger
LR8520 Wireless Fungal Logger

RESIST :LR8511 Wireless Universal Unit

HEAT :LR8510 Wireless Volt/Temp Unit
LR8511 Wireless Universal Unit
LR8515 Wireless Voltage/Temp Logger

COUNT :LR8512 Wireless Pulse Logger

REVOLVE :LR8512 Wireless Pulse Logger

LOGIC :LR8512 Wireless Pulse Logger

CURRENT :LR8513 Wireless Clamp Logger

TEMP :LR8514 Wireless Humidity Logger
LR8520 Wireless Fungal Logger

INDEX :LR8520 Wireless Fungal Logger

FGROWTH :LR8520 Wireless Fungal Logger

Note Measurement mode of LR8514 Wireless Humidity Logger and LR8520 Wireless Fungal Logger is fixed.

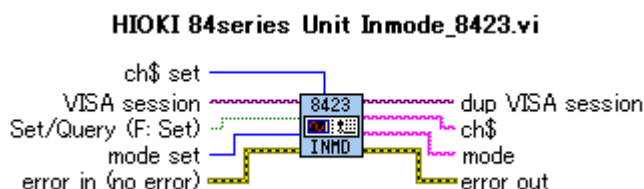
Note This command is effective only when LR8511 Wireless Universal Unit or LR8510 Wireless Volt/Temp Unit or LR8512 Wireless Pulse Logger or LR8513 Wireless Clamp Logger or LR8514 Wireless Humidity Logger or LR8515 Wireless Voltage/Temp Logger or LR8520 Wireless Fungal Logger's registered channel.

Note If you send this command, the waveform data in the internal memory is cleared.

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4-3-26. HIOKI 84series Unit Inmode_8423.vi

Sets or queries the measurement mode of an input channel.



| Name | Data type | Explanation |
|------------------|-----------|--|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| Mode set | | Specifies the measurement mode of an input channel
Valid range: 0(=VOLTAGE),1(=TC),2(=RTD),3(=HUMIDITY) * |
| ch\$ | | Specified channel |
| mode | | The result of querying the measurement mode of an input channel |

* RTD,HUMIDITY is only 8949 universal unit

Reference command (the 8423 command.)

(5) Sets and queries the measurement mode of an input channel.

Syntax (command) :UNIT:INMode unit\$,ch\$,A\$
(query) :UNIT:INMode? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=VOLTAGE,TC,RTD,HUMIDITY

Explanation Sets the measurement mode for the channel designated by unit\$,ch\$.
Returns the current measurement mode for the channel designated by unit\$,ch\$ as character data.

Example :UNIT:INMode UNIT1,CH1,VOLTAGE
Sets the measurement mode for unit 1,channel 1 to voltage.

Note RTD,HUMIDITY is only 8949 universal unit

Note This command is effective only when 8949 Universal Unit
or 8948 Voltage/Temp Unit.

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4-3-27. HIOKI 84series Unit Range.vi

Sets or queries the measurement range of an input channel.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 59(=CH4_15) |
| range set | | Specifies the measurement range (unit: V、°C) * |
| ch\$ | | Specified channel |
| range | | The result of querying the measurement range (unit: V、°C) |

* Temperature range cannot be set to 100 or 500 at Sensor is B.

Reference command (the LR8400,LR8401,LR8402 command.)

(4) Sets and queries the measurement range of an input channel.

Syntax (command) :UNIT:RANGE ch\$,A
(query) :UNIT:RANGE? ch\$
(response) ch\$,A<NR3>
ch\$=CH1_1 to CH4_15
A=volt(V),tc,rtd(C),humid(%),resist(OHM)

Explanation Sets the measurement range for the channel designated by ch\$ to a numerical value.
Returns the current measurement range for the channel designated by ch\$ as an NR3 numerical value.

Example :UNIT:RANGE CH1_1,+100.E-3
Sets the measurement range for channel 1-1 to 100 mV.

Note Please set up A=15, when it makes the range of 1-5V with voltage.

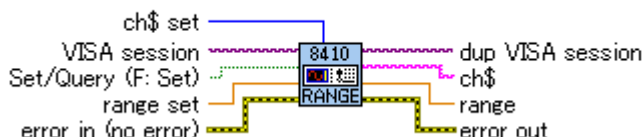
Note This command is effective only when LR8501 Universal Unit
or LR8500 Volt/Temp Unit.
Temperature range cannot be set to 100 or 500 at Sensor is B.

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4-3-28. HIOKI 84series Unit Range_LR8410.vi

Sets or queries the measurement range of an input channel.

HIOKI 84series Unit Range_LR8410.vi



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| range set | | Specifies the measurement range (unit: V、°C、%、Ω、c、r/s) * |
| ch\$ | | Specified channel |
| range | | The result of querying the measurement range (unit: V、°C、%、Ω、c、r/s) |

* Temperature range cannot be set to 100 or 500 at Sensor is B.

Reference command (the LR8410,LR8416 command.)

(4) Sets and queries the measurement range of an input channel.

Syntax (command) :UNIT:RANGe ch\$,A
(query) :UNIT:RANGe? ch\$
(response) ch\$,A<NR3>
ch\$=CH1_1 to CH7_15
A=volt(V),tc,rtd(C),humid(%),resist(OHM),heat(V),
count(c),revolve(r/s),current(A),findex,fgrowth
(heat(V) is only for LR8416)

Explanation Sets the measurement range for the channel designated by ch\$ to a numerical value.
(When the range of setting is not exist. and upper range of setting is exist. It becomes the upper range.)

Returns the current measurement range for the channel designated by ch\$ as an NR3 numerical value.

Example :UNIT:RANGe CH1_1,+100.E-3

Sets the measurement range for channel 1-1 to 100 mV.

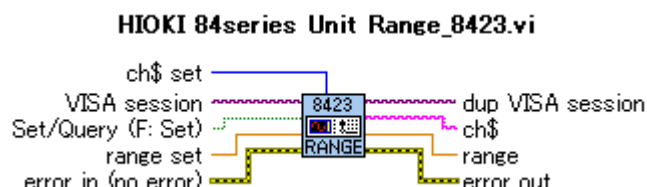
Note Please set up A=15, when it makes the range of 1-5V with voltage.

Note This command is effective only when LR8511 Wireless Universal Unit or LR8510 Wireless Volt/Temp Unit or LR8512 Wireless Pulse Logger or LR8513 Wireless Clamp Logger or LR8514 Wireless Humidity Logger or LR8515 Wireless Voltage/Temp Logger or LR8520 Wireless Fungal Logger's registered channel.
Temperature range cannot be set to 100 or 500 at Sensor is B.

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4-3-29. HIOKI 84series Unit Range_8423.vi

Sets or queries the measurement range of an input channel.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| range set | | Specifies the measurement range (unit: V、°C) * |
| ch\$ | | Specified channel |
| range | | The result of querying the measurement range (unit: V、°C) |

Reference command (the 8423 command.)

(6) Sets and queries the measurement range of an input channel.

Syntax (command) :UNIT:RANGe unit\$,ch\$,A
(query) :UNIT:RANGe? unit\$,ch\$
(response) unit\$,ch\$,A<NR3>
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A=volt(V),tc,rtd(C),humid(%)

Explanation Sets the measurement range for the channel designated by unit\$,ch\$ to a numerical value.
Returns the current measurement range for the channel designated by unit\$,ch\$ as an NR3 numerical value.

Example :UNIT:RANGe UNIT1,CH1,+100.E-3
Sets the measurement range for unit 1,channel 1 to 100 mV.

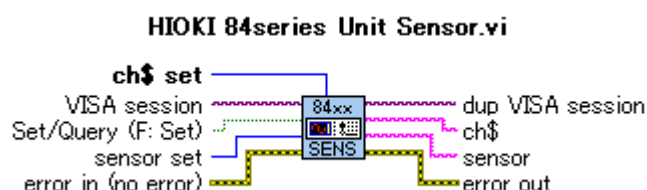
Note Please set up A=15, when it makes the range of 1-5V with voltage.

Note This command is effective only when 8949 Universal Unit
or 8948 Voltage/Temp Unit.

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4-3-30. HIOKI 84series Unit Sensor.vi

Sets or queries the sensor kind for tc mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 59(=CH4_15) |
| Sensor set | | Specifies the sensor kind for tc mode
Valid range: 0(=K), 1(=J), 2(=E), 3(=T), 4(=N),
5(=R), 6(=S), 7(=B), 8(=W)* |
| ch\$ | | Specified channel |
| sensor | | The result of querying the sensor kind for tc mode |

* Sensor cannot be set to B at temperature range is 100 or 500.

Reference command (the LR8400,LR8401,LR8402 command.)

(6) Sets and queries the sensor kind for tc mode.

Syntax (command) :UNIT:SENSOr ch\$,A\$
(query) :UNIT:SENSOr? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH4_15
A\$=K,J,E,T,N,R,S,B,W

Explanation Sets the sensor kind for the channel designated by ch\$.
Returns the current sensor kind for the channel designated by ch\$ as character data.

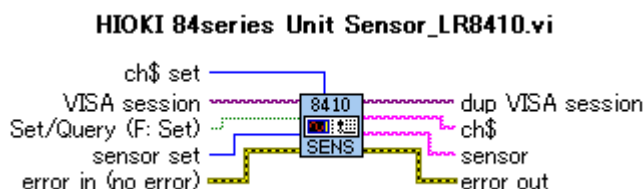
Example :UNIT:SENSOr CH1_1,K
Sets the sensor kind for channel 1-1 to K.

Note This command is effective only when LR8501 Universal Unit
or LR8500 Volt/Temp Unit.
Sensor cannot be set to B at temperature range is 100 or 500.

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4-3-31. HIOKI 84series Unit Sensor_LR8410.vi

Sets or queries the sensor kind for tc mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| Sensor set | | Specifies the sensor kind for tc mode
Valid range: 0(=K), 1(=J), 2(=E), 3(=T), 4(=N),
5(=R), 6(=S), 7(=B), 8(=W)* |
| ch\$ | | Specified channel |
| sensor | | The result of querying the sensor kind for tc mode |

* Sensor cannot be set to B at temperature range is 100 or 500.

Reference command (the LR8410,LR8416 command.)

(6) Sets and queries the sensor kind for tc mode.

Syntax (command) :UNIT:SENSor ch\$,A\$
(query) :UNIT:SENSor? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_15
A\$=K,J,E,T,N,R,S,B,W

Explanation Sets the sensor kind for the channel designated by ch\$.
Returns the current sensor kind for the channel designated by ch\$ as character data.

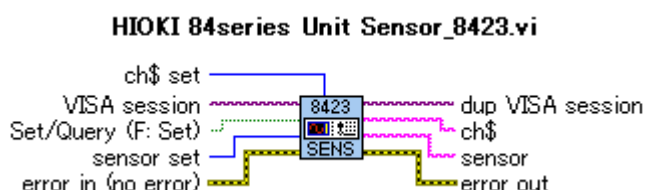
Example :UNIT:SENSor CH1_1,K
Sets the sensor kind for channel 1-1 to K.

Note This command is effective only when LR8511 Wireless Universal Unit
or LR8510 Wireless Volt/Temp Unit
or LR8515 Wireless Voltage/Temp Logger's registered channel.
LR8515 can be selected only K and T.
Sensor cannot be set to B at temperature range is 100 or 500.

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4-3-32. HIOKI 84series Unit Sensor_8423.vi

Sets or queries the sensor kind for tc mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| Sensor set | | Specifies the sensor kind for tc mode
Valid range: 0(=K), 1(=J), 2(=E), 3(=T), 4(=N),
5(=R), 6(=S), 7(=B), 8(=W)* |
| ch\$ | | Specified channel |
| sensor | | The result of querying the sensor kind for tc mode |

Reference command (the 8423 command.)

(7) Sets and queries the sensor kind for tc mode.

Syntax (command) :UNIT:SENSor unit\$,ch\$,A\$
(query) :UNIT:SENSor? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=K,J,E,T,N,R,S,B,W

Explanation Sets the sensor kind for the channel designated by unit\$,ch\$.
Returns the current sensor kind for the channel designated by unit\$,ch\$ as character data.

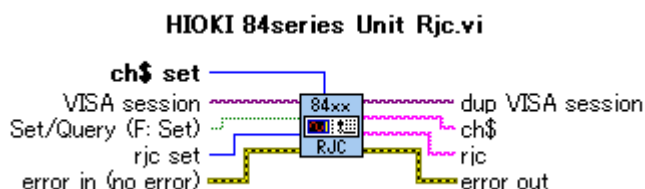
Example :UNIT:SENSor UNIT1,CH1,K
Sets the sensor kind for unit 1,channel 1 to K.

Note This command is effective only when 8949 Universal Unit
or 8948 Voltage/Temp Unit.

| | | |
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4-3-33. HIOKI 84series Unit Rjc.vi

Sets or queries the point of contact compensation for tc mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 59(=CH4_15) |
| rjc set | | Specifies the point of contact compensation for tc mode
Valid range: 0(=IN), 1(=EXT) |
| ch\$ | | Specified channel |
| rjc | | The result of querying the point of contact compensation for tc mode |

Reference command (the LR8400,LR8401,LR8402 command.)

(7) Sets and queries the point of contact compensation for tc mode.

Syntax (command) :UNIT:RJC ch\$,A\$
(query) :UNIT:RJC? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH4_15
A\$=INT,EXT

Explanation Sets the point of contact compensation for the channel designated by ch\$.
Returns the current point of contact compensation for the channel designated by ch\$ as character data.

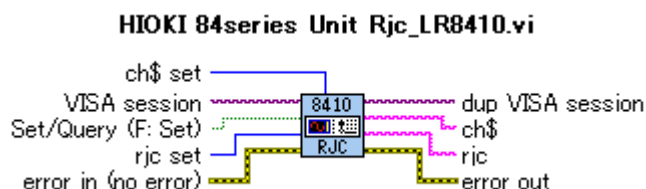
Example :UNIT:RJC CH1_1,INT
Sets the point of contact compensation for channel 1-1 to int.

Note This command is effective only when LR8501 Universal Unit
or LR8500 Volt/Temp Unit.

| | | |
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4-3-34. HIOKI 84series Unit Rjc_LR8410.vi

Sets or queries the point of contact compensation for tc mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| rjc set | | Specifies the point of contact compensation for tc mode
Valid range: 0(=IN), 1(=EXT) |
| ch\$ | | Specified channel |
| rjc | | The result of querying the point of contact compensation for tc mode |

Reference command (the LR8410,LR8416 command.)

(7) Sets and queries the point of contact compensation for tc mode.

Syntax (command) :UNIT:RJC ch\$,A\$
(query) :UNIT:RJC? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_15
A\$=INT,EXT

Explanation Sets the point of contact compensation for the channel designated by ch\$.
Returns the current point of contact compensation for the channel designated by ch\$ as character data.

Example :UNIT:RJC CH1_1,INT

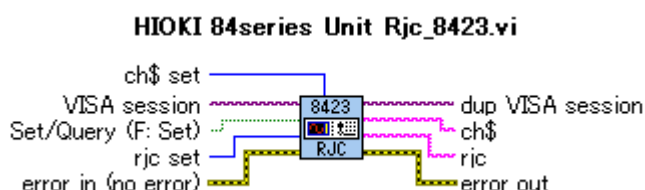
Sets the point of contact compensation for channel 1-1 to int.

Note This command is effective only when LR8511 Wireless Universal Unit or LR8510 Wireless Volt/Temp Unit or LR8515 Wireless Voltage/Temp Logger's registered channel.

| | | |
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4-3-35. HIOKI 84series Unit Rjc_8423.vi

Sets or queries the point of contact compensation for tc mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| rjc set | | Specifies the point of contact compensation for tc mode
Valid range: 0(=IN), 1(=EXT) |
| ch\$ | | Specified channel |
| rjc | | The result of querying the point of contact compensation for tc mode |

Reference command (the 8423 command.)

(8) Sets and queries the point of contact compensation for tc mode.

Syntax (command) :UNIT:RJC unit\$,ch\$,A\$
(query) :UNIT:RJC? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=INT,EXT

Explanation Sets the point of contact compensation for the channel designated by unit\$,ch\$.
Returns the current point of contact compensation for the channel designated by unit\$,ch\$ as character data.

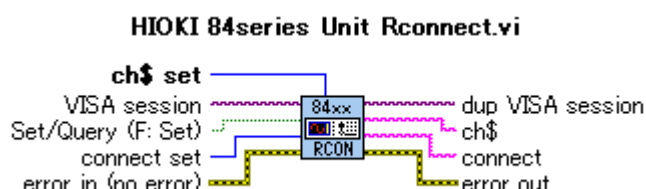
Example :UNIT:RJC UNIT1,CH1,INT
Sets the point of contact compensation for unit 1,channel 1 to int.

Note This command is effective only when 8949 Universal Unit
or 8948 Voltage/Temp Unit.

| | | |
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4-3-36. HIOKI 84series Unit Rconnect.vi

Sets or queries the connect kind for rtd mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 59(=CH4_15) |
| rjc set | | Specifies the connect kind for rtd mode
Valid range: 0(=3LINE, 1(=4LINE) * |
| ch\$ | | Specified channel |
| rjc | | The result of querying the connect kind for rtd mode |

* This command is effective only when LR8501 Universal Unit.

Reference command (the LR8400,LR8401,LR8402 command.)

(10) Sets and queries the connect kind for rtd mode.

Syntax (command) :UNIT:RCONnect ch\$,A\$
(query) :UNIT:RCONnect? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH4_15
A\$=3LINE,4LINE

Explanation Sets the connect kind for the channel designated by ch\$.
Returns the current connect kind for the channel designated by ch\$ as character data.

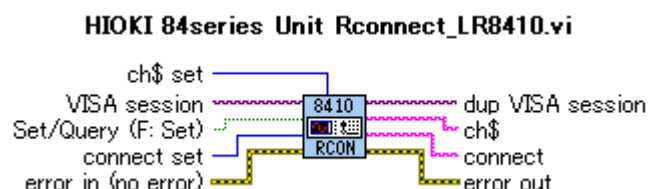
Example :UNIT:RCONnect CH1_1,4LINE
Sets the rtd kind for channel 1-1 to 4line.

Note This command is effective only when LR8501 Universal Unit.

| | | |
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4-3-37. HIOKI 84series Unit Rconnect_LR8410.vi

Sets or queries the connect kind for rtd mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| rjc set | | Specifies the connect kind for rtd mode
Valid range: 0(=3LINE, 1(=4LINE) * |
| ch\$ | | Specified channel |
| rjc | | The result of querying the connect kind for rtd mode |

* This command is effective only when LR8511 Wireless Universal Unit.

Reference command (the LR8410,LR8416 command.)

(10) Sets and queries the connect kind for rtd mode.

Syntax (command) :UNIT:RCONnect ch\$,A\$
(query) :UNIT:RCONnect? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_15
A\$=3LINE,4LINE

Explanation Sets the connect kind for the channel designated by ch\$.
Returns the current connect kind for the channel designated by ch\$ as character data.

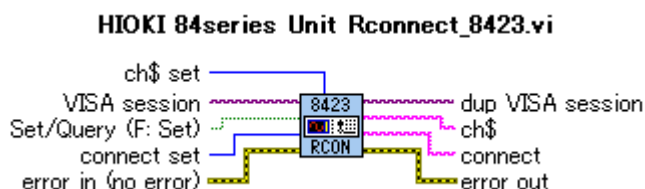
Example :UNIT:RCONnect CH1_1,4LINE
Sets the rtd kind for channel 1-1 to 4line.

Note This command is effective only when LR8511 Wireless Universal Unit's registered channel.

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4-3-38. HIOKI 84series Unit Rconnect_8423.vi

Sets or queries the connect kind for rtd mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| rjc set | | Specifies the connect kind for rtd mode
Valid range: 0(=3LINE, 1(=4LINE) * |
| ch\$ | | Specified channel |
| rjc | | The result of querying the connect kind for rtd mode |

* This command is effective only when 8949 Universal Unit.

Reference command (the 8423 command.)

(11) Sets and queries the connect kind for rtd mode.

Syntax (command) :UNIT:RCONnect unit\$,ch\$,A\$
(query) :UNIT:RCONnect? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=3LINE,4LINE

Explanation Sets the connect kind for the channel designated by unit\$,ch\$.
Returns the current connect kind for the channel designated by unit\$,ch\$ as character data.

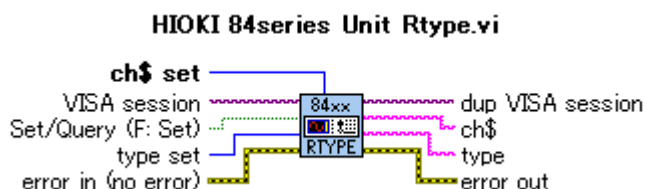
Example :UNIT:RCONnect UNIT1,CH1,4LINE
Sets the rtd kind for unit 1,channel 1 to 4line.

Note This command is effective only when 8949 Universal Unit.

| | | |
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4-3-39. HIOKI 84series Unit Rtype.vi

Sets or queries the rtd kind for rtd mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 59(=CH4_15) |
| Type set | | Specifies the rtd kind for rtd mode
Valid range: 0(=PT100), 1(=JPT100)* |
| ch\$ | | Specified channel |
| type | | The result of querying the rtd kind for rtd mode |

* This command is effective only when LR8501 Universal Unit.

Reference command (the LR8400,LR8401,LR8402 command.)

(9) Sets and queries the rtd kind for rtd mode.

Syntax (command) :UNIT:RTYPE ch\$,A\$
(query) :UNIT:RTYPE? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH4_15
A\$=PT100,JPT100

Explanation Sets the rtd kind for the channel designated by ch\$.
Returns the current rtd kind for the channel designated by ch\$ as character data.

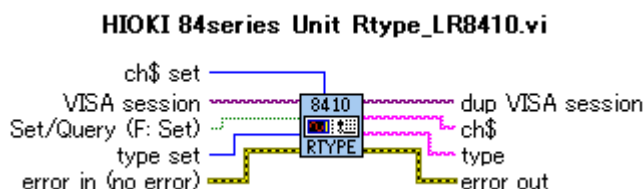
Example :UNIT:RTYPE CH1_1,PT100
Sets the rtd kind for channel 1-1 to pt100.

Note This command is effective only when LR8501 Universal Unit.

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4-3-40. HIOKI 84series Unit Rtype_LR8410.vi

Sets or queries the rtd kind for rtd mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| Type set | | Specifies the rtd kind for rtd mode
Valid range: 0(=PT100), 1(=JPT100)* |
| ch\$ | | Specified channel |
| type | | The result of querying the rtd kind for rtd mode |

* This command is effective only when LR8511 Wireless Universal Unit.

Reference command (the LR8410,LR8416 command.)

(9) Sets and queries the rtd kind for rtd mode.

Syntax (command) :UNIT:RTYPE ch\$,A\$
(query) :UNIT:RTYPE? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_15
A\$=PT100,JPT100

Explanation Sets the rtd kind for the channel designated by ch\$.
Returns the current rtd kind for the channel designated by ch\$ as character data.

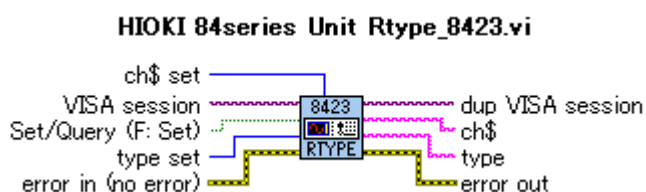
Example :UNIT:RTYPE CH1_1,PT100
Sets the rtd kind for channel 1-1 to pt100.

Note This command is effective only when LR8511 Wireless Universal Unit's registered channel.

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4-3-41. HIOKI 84series Unit Rtype_8423.vi

Sets or queries the rtd kind for rtd mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| Type set | | Specifies the rtd kind for rtd mode
Valid range: 0(=PT100), 1(=JPT100)* |
| ch\$ | | Specified channel |
| type | | The result of querying the rtd kind for rtd mode |

* This command is effective only when 8949 Universal Unit.

Reference command (the 8423 command.)

(10) Sets and queries the rtd kind for rtd mode.

Syntax (command) :UNIT:RTYPE unit\$,ch\$,A\$
(query) :UNIT:RTYPE? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=PT100,JPT100

Explanation Sets the rtd kind for the channel designated by unit\$,ch\$.
Returns the current rtd kind for the channel designated by unit\$,ch\$ as character data.

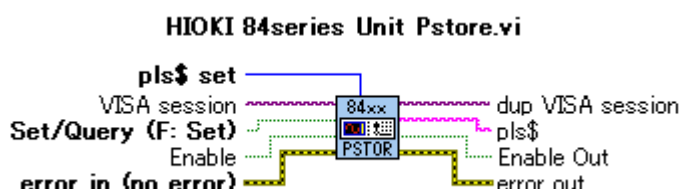
Example :UNIT:RTYPE UNIT1,CH1,PT100
Sets the rtd kind for unit 1,channel 1 to pt100.

Note This command is effective only when 8949 Universal Unit.

| | | |
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4-3-42. HIOKI 84series Unit Pstore.vi

Sets or queries the store enable or disable for pulse channel data record.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| pls\$ set | | Specifies the pulse channel
Valid range: 0(=PLS1) to 7(=PLS8) |
| Store set | | Specifies the store enable or disable for pulse channel data record |
| pls\$ | | Specified pulse channel |
| store | | The result of querying the store enable or disable for pulse channel data record |

- * The pulse channel to be set should be made PLS measurement by using the command of :UNIT:PLSLogic PLS1,PLS to turn on the pulse collection by :UNIT:STORE PLS1,ON. :UNIT:STORE PLS1,ON becomes invalid when being set it to :UNIT:PLSLogic PLS1,LOGIC. To turn on the logic collection by :UNIT:STORE LOG,ON one or more of PLS1-PLS8 should be made LOGIC measurement by using the command of :UNIT:PLSLogic PLS1,LOGIC. When PLS1-PLS8 is entire PLS, :UNIT:STORE LOG,ON becomes invalid.

Reference command (the LR8400,LR8401,LR8402 command.)

(1) Sets and queries the store enable or disable for channel data record.

Syntax (command) :UNIT:STORE ch\$,A\$
(query) :UNIT:STORE? ch\$
(response) ch\$,A\$
~~ch\$=CH1_1 to CH4_15,PLS1 to PLS8,LOG,ALARM,W1 to W30~~
A\$=OFF,ON

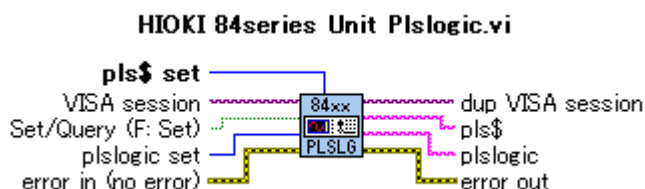
Explanation Sets the store enable or disable for the channel designated by ch\$.
Returns the current store enable or disable for the channel designated by ch\$ as character data.

Example :UNITSTORE PLS1,ON
Sets the store for pls1 to enable.

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4-3-43. HIOKI 84series Unit Plslogic.vi

Sets or queries the pulse or logic .



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| pls\$ set | | Specifies the pulse channel
Valid range: 0(=PLS1) to 7(=PLS8) |
| plslogic set | | Specifies the pulse or logic
Valid range: 0(=PLS :Default),1(=LOGIC) |
| pls\$ | | Specified pulse channel |
| plslogic | | The result of querying the pulse or logic |

Reference command (the LR8400,LR8401,LR8402 command.)

(18) Sets and queries the pulse or logic.

Syntax (command) :UNIT:PLSLogic pls\$,A\$
(query) :UNIT:PLSLogic? pls\$
(response) pls\$,A\$
pls\$=PLS1 to PLS8
A\$=PLS,LOGIC

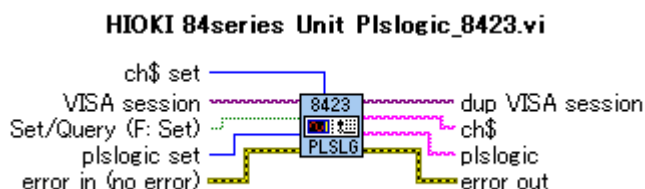
Explanation Sets the pulse or logic for the channel designated by pls\$.
Returns the current pulse or logic for the channel designated by pls\$ as character data.

Example :UNIT:PLSLogic PLS1,PLS
Sets the pulse or logic for pls1 to PLS.

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4-3-44. HIOKI 84series Unit Plslogic_8423.vi

Sets or queries the pulse or logic .



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| plslogic set | | Specifies the pulse or logic
Valid range: 0(=PLS :Default),1(=LOGIC) |
| ch\$ | | Specified channel |
| plslogic | | The result of querying the pulse or logic |

* This command is effective only when 8996 Digital/Pulse Unit

Reference command (the 8423 command.)

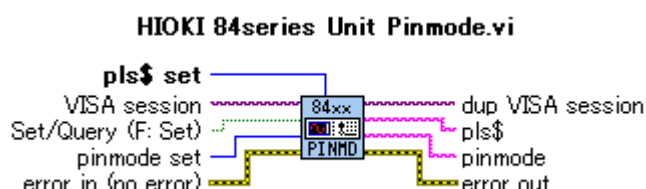
(18) Sets and queries the pulse or logic.

| | |
|-------------|---|
| Syntax | (command) :UNIT:PLSLogic unit\$,ch\$,A\$
(query) :UNIT:PLSLogic? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=PLS,LOGIC |
| Explanation | Sets the pulse or logic for the channel designated by unit\$,ch\$.
Returns the current pulse or logic for the channel designated by unit\$,ch\$ as character data. |
| Example | :UNIT:PLSLogic UNIT1,CH1,PLS
Sets the pulse or logic for unit 1,channel 1 to PLS. |
| Note | This command is effective only when 8996 Digital/Pulse Unit. |

| | | |
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4-3-45. HIOKI 84series Unit Pinmode.vi

Sets or queries the measurement mode of an input pulse channel.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| pls\$ set | | Specifies the pulse channel
Valid range: 0(=PLS1) to 7(=PLS8) |
| pinmode set | | Specifies the measurement mode of an input pulse channel
Valid range: 0(=COUNT :Default),1(=REVOLVE) |
| pls\$ | | Specified pulse channel |
| pinmode | | The result of the measurement mode of an input pulse channel |

Reference command (the LR8400,LR8401,LR8402 command.)

(11) Sets and queries the measurement mode of an input pulse channel.

Syntax (command) :UNIT:PINMode pls\$,A\$
(query) :UNIT:PINMode? pls\$
(response) pls\$,A\$
pls\$=PLS1 to PLS8
A\$=COUNT,REVOLVE

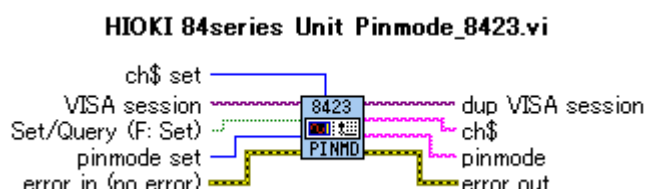
Explanation Sets the measurement mode for the pulse channel designated by pls\$.
Returns the current measurement mode for the pulse channel designated by pls\$ as character data.

Example :UNIT:PINMode PLS1,COUNT
Sets the measurement mode for pls1 to count.

| | | |
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Sets or queries the measurement mode of an input pulse channel.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| pinmode set | | Specifies the measurement mode of an input pulse channel
Valid range: 0(=COUNT :Default),1(=REVOLVE) |
| ch\$ | | Specified channel |
| pinmode | | The result of the measurement mode of an input pulse channel |

* This command is effective only when 8996 Digital/Pulse Unit

Reference command (the 8423 command.)

(12) Sets and queries the measurement mode of an input pulse channel.

Syntax (command) :UNIT:PINMOde unit\$,ch\$,A\$
(query) :UNIT:PINMOde? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=COUNT,REVOLVE

Explanation Sets the measurement mode for the pulse channel designated by unit\$,ch\$.
Returns the current measurement mode for the pulse channel designated by unit\$,ch\$ as character data.

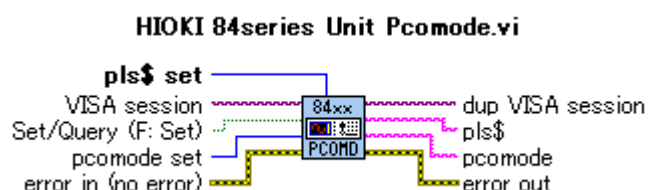
Example :UNIT:PINMOde UNIT1,CH1,COUNT
Sets the measurement mode for unit 1,channel 1 to count.

Note This command is effective only when 8996 Digital/Pulse Unit.

| | | |
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4-3-47. HIOKI 84series Unit Pcomode.vi

Sets or queries the count mode of an input pulse channel.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| pls\$ set | | Specifies the pulse channel
Valid range: 0(=PLS1) to 7(=PLS8) |
| pcomode set | | Specifies the count mode of an input pulse channel
Valid range: 0(=ADD :Default),1(=INST) |
| pls\$ | | Specified pulse channel |
| pcomode | | The result of the count mode of an input pulse channel |

Reference command (the LR8400,LR8401,LR8402 command.)

(13) Sets and queries the count mode of an input pulse channel.

Syntax (command) :UNIT:PCOMode pls\$,A\$
(query) :UNIT:PCOMode? pls\$
(response) pls\$,A\$
pls\$=PLS1 to PLS8
A\$=ADD,INST

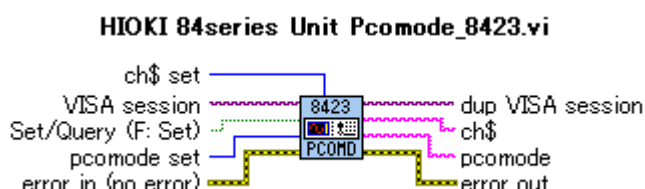
Explanation Sets the count mode for the pulse channel designated by pls\$.
Returns the current count mode for the pulse channel designated by pls\$ as character data.

Example :UNIT:PCOMode PLS1,ADD
Sets the count mode for pls1 to add.

| | | |
|--------------|--|-------------------|
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4-3-48. HIOKI 84series Unit Pcomode_8423.vi

Sets or queries the count mode of an input pulse channel.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| pcomode set | | Specifies the count mode of an input pulse channel
Valid range: 0(=ADD :Default),1(=INST) |
| ch\$ | | Specified channel |
| pcomode | | The result of the count mode of an input pulse channel |

* This command is effective only when 8996 Digital/Pulse Unit.

Reference command (the 8423 command.)

(13) Sets and queries the count mode of an input pulse channel.

Syntax (command) :UNIT:PCOMode unit\$,ch\$,A\$
 (query) :UNIT:PCOMode? unit\$,ch\$
 (response) unit\$,ch\$,A\$
 unit\$=UNIT1 to UNIT8
 ch\$=CH1 to CH15
 A\$=ADD,INST

Explanation Sets the count mode for the pulse channel designated by unit\$,ch\$.
 Returns the current count mode for the pulse channel designated by unit\$,ch\$ as character data.

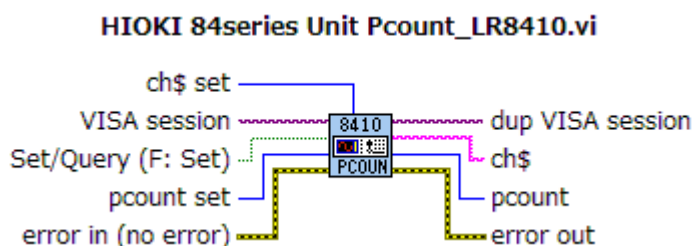
Example :UNIT:PCOMode UNIT1,CH1,ADD
 Sets the count mode for unit 1,channel 1 to add.

Note This command is effective only when 8996 Digital/Pulse Unit.

| | | |
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4-3-49. HIOKI 84series Unit Pcomode_LR8410.vi

Sets or queries the count mode of an input pulse channel.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15)
(It can be used to 2 channels in each logger.) |
| pcomode set | | Specifies the count mode of an input pulse channel
Valid range: 0(=ADD :Default),1(=INST) |
| ch\$ | | Specified channel |
| pcomode | | The result of the count mode of an input pulse channel |

* This command is effective only when LR8512 Wireless Pulse Logger.

Reference command (the LR8410,LR8416 command.)

(12) Sets and queries the count mode of an input pulse channel.

Syntax (command) :UNIT:PCOMode ch\$,A\$
(query) :UNIT:PCOMode? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_2
A\$=ADD,INST

Explanation Sets the count mode for the pulse channel designated by ch\$.
Returns the current count mode for the pulse channel designated by ch\$ as character data.

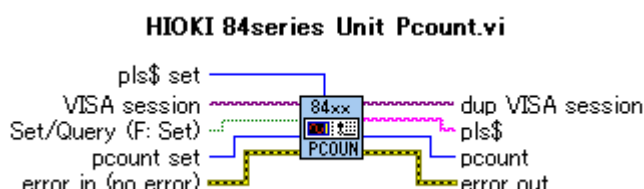
Example :UNIT:PCOMode CH1_1,ADD
Sets the count mode for pls1 to add.

Note This command is effective only when LR8512 Wireless Pulse Logger's registered channel.

| | | |
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4-3-50. HIOKI 84series Unit Pcount.vi

Sets or queries the pulse num per revolve.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| pls\$ set | | Specifies the pulse channel
Valid range: 0(=PLS1) to 7(=PLS8) |
| Pcount set | | Specifies the pulse num per revolve
Valid range: 1 to 1000 |
| pls\$ | | Specified pulse channel |
| pcount | | The result of the pulse num per revolve |

Reference command (the LR8400,LR8401,LR8402 command.)

(14) Sets and queries the pulse num per revolve.

Syntax (command) :UNIT:PCOunt pls\$,A
(query) :UNIT:PCOunt? pls\$
(response) pls\$,A<NR1>
pls\$=PLS1 to PLS8
A=pulse num per revolve(1 to 1000)

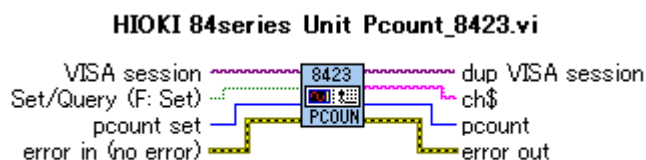
Explanation Sets the pulse num per revolve for the pulse channel designated by pls\$ in the range to a numerical value.
Returns the current pulse num per revolve for the pulse channel designated by pls\$ as an NR1 numerical value

Example :UNIT:PCOunt PLS1,1
Sets the pulse num per revolve for pls1 to 1.

| | | |
|--------------|--|-------------------|
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4-3-51. HIOKI 84series Unit Pcount_8423.vi

Sets or queries the pulse num per revolve.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| Pcount set | | Specifies the pulse num per revolve
Valid range: 1 to 1000 |
| ch\$ | | Specified channel |
| pcount | | The result of the pulse num per revolve |

* This command is effective only when 8996 Digital/Pulse Unit.

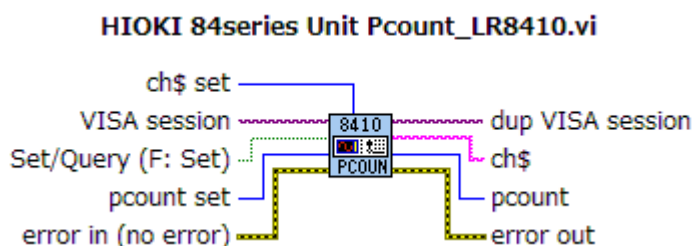
Reference command (the 8423 command.)

(14) Sets and queries the pulse num per revolve.

| | |
|-------------|--|
| Syntax | (command) :UNIT:PCOUnt unit\$,ch\$,A
(query) :UNIT:PCOUnt? unit\$,ch\$
(response) unit\$,ch\$,A<NR1>
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A=pulse num per revolve(1 to 9999) |
| Explanation | Sets the pulse num per revolve for the pulse channel designated by unit\$,ch\$ in the range to a numerical value.
Returns the current pulse num per revolve for the pulse channel designated by unit\$,ch\$ as an NR1 numerical value |
| Example | :UNIT:PCOUnt UNIT1,CH1,1
Sets the pulse num per revolve for unit 1,channel 1 to 1. |
| Note | This command is effective only when 8996 Digital/Pulse Unit. |

| | | |
|--------------|--|-------------------|
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4-3-52. HIOKI 84series Unit Pcount_LR8410.vi
Sets or queries the pulse num per revolve.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15)
(It can be used to 2 channels in each logger.) |
| Pcount set | | Specifies the pulse num per revolve
Valid range: 1 to 1000 |
| ch\$ | | Specified channel |
| pcount | | The result of the pulse num per revolve |

* This command is effective only when LR8512 Wireless Pulse Logger.

Reference command (the LR8410,LR8416 command.)

(13) Sets and queries the pulse num per revolve.

Syntax (command) :UNIT:PCOunt ch\$,A
(query) :UNIT:PCOunt? ch\$
(response) ch\$,A<NR1>
ch\$=CH1_1 to CH7_2
A=pulse num per revolve(1 to 1000)

Explanation Sets the pulse num per revolve for the pulse channel designated by ch\$ in the range to a numerical value.
Returns the current pulse num per revolve for the pulse channel designated by ch\$ as an NR1 numerical value

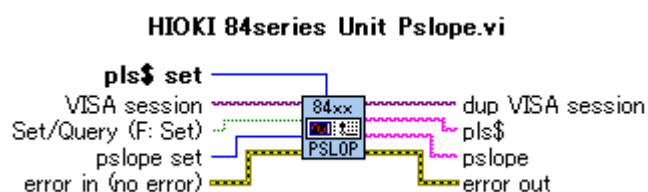
Example :UNIT:PCOunt CH1_1,1
Sets the pulse num per revolve for CH1_1 to 1.

Note This command is effective only when LR8512 Wireless Pulse Logger's registered channel.

| | | |
|--------------|--|-------------------|
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4-3-53. HIOKI 84series Unit Pslope.vi

Sets or queries the pulse channel count slope.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| pls\$ set | | Specifies the pulse channel
Valid range: 0(=PLS1) to 7(=PLS8) |
| pslope set | | Specifies the pulse channel count slope
Valid range: 0(=UP :Default),1(=DOWN) |
| pls\$ | | Specified pulse channel |
| pslope | | The result of the pulse channel count slope |

Reference command (the LR8400,LR8401,LR8402 command.)

(15) Sets and queries the pulse channel count slope.

Syntax (command) :UNIT:PSLOPe pls\$,A\$
(query) :UNIT:PSLOPe? pls\$
(response) pls\$,A\$
pls\$=PLS1 to PLS8
A\$=UP,DOWN

Explanation Sets the count slope for the channel designated by pls\$.
Returns the current count slope for the channel designated by pls\$ as character data.

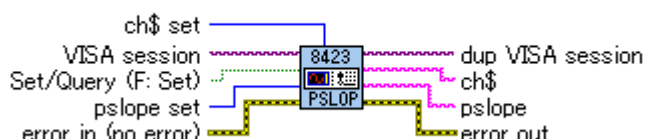
Example :UNIT:PSLOPe PLS1,UP
Sets the count slop for pls1 to up.

| | | |
|--------------|--|-------------------|
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4-3-54. HIOKI 84series Unit Pslope_8423.vi

Sets or queries the pulse channel count slope.

HIOKI 84series Unit Pslope_8423.vi



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| pslope set | | Specifies the pulse channel count slope
Valid range: 0(=UP :Default),1(=DOWN) |
| ch\$ | | Specified channel |
| pslope | | The result of the pulse channel count slope |

* This command is effective only when 8996 Digital/Pulse Unit

Reference command (the 8423 command.)

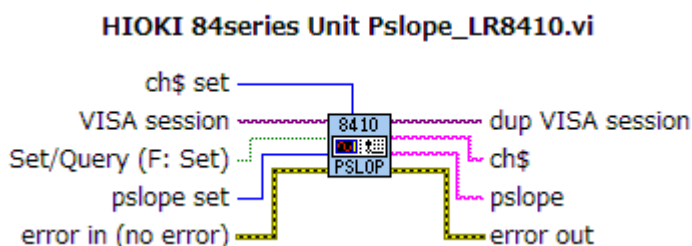
(15) Sets and queries the pulse channel count slope.

| | |
|-------------|---|
| Syntax | (command) :UNIT:PSLOPe unit\$,ch\$,A\$
(query) :UNIT:PSLOPe? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=UP,DOWN |
| Explanation | Sets the count slope for the channel designated by unit\$,ch\$.
Returns the current count slope for the channel designated by unit\$,ch\$ as character data. |
| Example | :UNIT:PSLOPe UNIT1,CH1,UP
Sets the count slop for unit 1,channel 1 to up. |
| Note | This command is effective only when 8996 Digital/Pulse Unit. |

| | | |
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4-3-55. HIOKI 84series Unit Pslope_LR8410.vi

Sets or queries the pulse channel count slope.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15)
(It can be used to 2 channels in each logger.) |
| pslope set | | Specifies the pulse channel count slope
Valid range: 0(=UP :Default),1(=DOWN) |
| ch\$ | | Specified channel |
| pslope | | The result of the pulse channel count slope |

* This command is effective only when LR8512 Wireless Pulse Logger.

Reference command (the LR8410,LR8416 command.)

(15) Sets and queries the pulse channel count slope.

Syntax (command) :UNIT:PSLOPe ch\$,A\$
(query) :UNIT:PSLOPe? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_2
A\$=UP,DOWN

Explanation Sets the count slope for the channel designated by ch\$.
Returns the current count slope for the channel designated by ch\$ as character data.

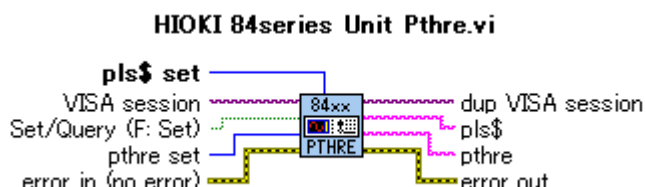
Example :UNIT:PSLOPe CH1_1,UP
Sets the count slop for CH1_1 to up.

Note This command is effective only when LR8512 Wireless Pulse Logger's registered channel..

| | | |
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4-3-56. HIOKI 84series Unit Pthre.vi

Sets or queries the pulse threshold level.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| pls\$ set | | Specifies the pulse channel
Valid range: 0(=PLS1) to 7(=PLS8) |
| Pthre set | | Specifies the pulse threshold level
Valid range: 0(=1V :Default),1(=4V) |
| pls\$ | | Specified pulse channel |
| pthre | | The result of the pulse threshold level |

Reference command (the LR8400,LR8401,LR8402 command.)

(16) Sets and queries the pulse threshold level.

Syntax (command) :UNIT:PTHRe pls\$,A\$
(query) :UNIT:PTHRe? pls\$
(response) pls\$,A\$
pls\$=PLS1 to PLS8
A\$=1V,4V

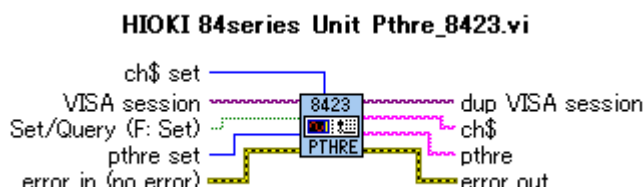
Explanation Sets the pulse threshold level for the channel designated by pls\$.
Returns the current pulse threshold level for the channel designated by pls\$ as character data.

Example :UNIT:PTHRe PLS1,1V
Sets the pulse threshold level for pls1 to 1V.

| | | |
|--------------|--|-------------------|
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4-3-57. HIOKI 84series Unit Pthre_8423.vi

Sets or queries the pulse threshold level.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| Pthre set | | Specifies the pulse threshold level
Valid range: 0(=1V :Default),1(=4V) |
| ch\$ | | Specified channel |
| pthre | | The result of the pulse threshold level |

* This command is effective only when 8996 Digital/Pulse Unit

Reference command (the 8423 command.)

(16) Sets and queries the pulse threshold level.

Syntax (command) :UNIT:PTHRe unit\$,ch\$,A\$
(query) :UNIT:PTHRe? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=1V,4V

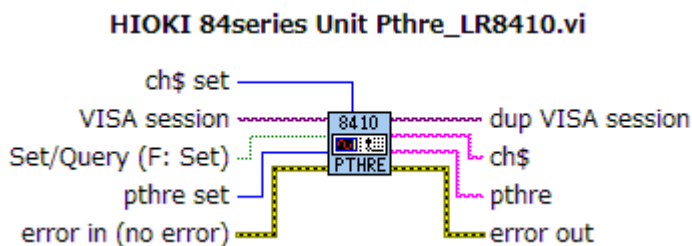
Explanation Sets the pulse threshold level for the channel designated by unit\$,ch\$.
Returns the current pulse threshold level for the channel designated by unit\$,ch\$ as character data.

Example :UNIT:PTHRe UNIT1,CH1,1V
Sets the pulse threshold level for unit 1,channel 1 to 1V.

Note This command is effective only when 8996 Digital/Pulse Unit.

| | | |
|--------------|--|-------------------|
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4-3-58. HIOKI 84series Unit Pthre_LR8410.vi
Sets or queries the pulse threshold level.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15)
(It can be used to 2 channels in each logger.) |
| Pthre set | | Specifies the pulse threshold level
Valid range: 0(=1V :Default),1(=4V) |
| ch\$ | | Specified channel |
| pthre | | The result of the pulse threshold level |

* This command is effective only when LR8512 Wireless Pulse Logger.

Reference command (the LR8410,LR8416 command.)

(16) Sets and queries the pulse threshold level.

Syntax (command) :UNIT:PTHRe ch\$,A\$
(query) :UNIT:PTHRe? ch\$
(response) ch\$,A\$

ch\$=CH1_1 to CH7_2
A\$=1V,4V

Explanation Sets the pulse threshold level for the channel designated by ch\$.
Returns the current pulse threshold level for the channel designated by ch\$ as character data.

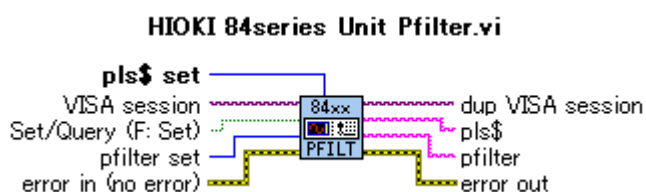
Example :UNIT:PTHRe CH1_1,1V
Sets the pulse threshold level for CH1_1 to 1V.

Note This command is effective only when LR8512 Wireless Pulse Logger's registered channel.

| | | |
|--------------|--|-------------------|
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4-3-59. HIOKI 84series Unit Pfilter.vi

Sets or queries the pulse channel filter.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| pls\$ set | | Specifies the pulse channel
Valid range: 0(=PLS1) to 7(=PLS8) |
| Pfilter set | | Specifies the pulse channel filter
Valid range: 0(=OFF :Default),1(=ON) |
| pls\$ | | Specified pulse channel |
| pfilter | | The result of the pulse channel filter |

Reference command (the LR8400,LR8401,LR8402 command.)

(17) Sets and queries the pulse channel filter.

Syntax (command) :UNIT:PFILTER pls\$,A\$
(query) :UNIT:PFILTER? pls\$
(response) pls\$,A\$
pls\$=PLS1 to PLS8
A\$=OFF,ON

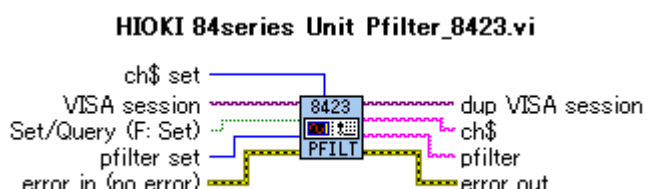
Explanation Sets the filter for the channel designated by pls\$.
Returns the current filter for the channel designated by pls\$ as character data.

Example :UNIT:PFILTER PLS1,ON
Sets the filter for pls1 to ON.

| | | |
|--------------|--|-------------------|
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4-3-60. HIOKI 84series Unit Pfilter_8423.vi

Sets or queries the pulse channel filter.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| Pfilter set | | Specifies the pulse channel filter
Valid range: 0(=OFF :Default),1(=ON) |
| ch\$ | | Specified channel |
| pfilter | | The result of the pulse channel filter |

* This command is effective only when 8996 Digital/Pulse Unit

Reference command (the 8423 command.)

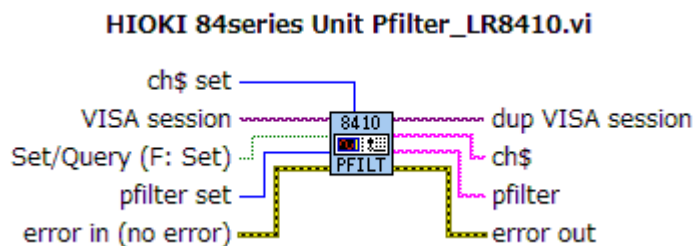
(17) Sets and queries the pulse channel filter.

| | |
|-------------|--|
| Syntax | (command) :UNIT:PFILT unit\$,ch\$,A\$
(query) :UNIT:PFILT? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=OFF,ON |
| Explanation | Sets the filter for the channel designated by unit\$,ch\$.
Returns the current filter for the channel designated by unit\$,ch\$ as character data. |
| Example | :UNIT:PFILT UNIT1,CH1,ON
Sets the filter for unit 1,channel 1 to ON. |
| Note | This command is effective only when 8996 Digital/Pulse Unit. |

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4-3-61. HIOKI 84series Unit Pfilter_LR8410.vi

Sets or queries the pulse channel filter.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15)
(It can be used to 2 channels in each logger.) |
| Pfilter set | | Specifies the pulse channel filter
Valid range: 0(=OFF :Default),1(=ON) |
| ch\$ | | Specified channel |
| pfilter | | The result of the pulse channel filter |

* This command is effective only when LR8512 Wireless Pulse Logger.

Reference command (the 8423 command.)

(14) Sets and queries the pulse channel filter.

Syntax (command) :UNIT:PFILTer ch\$,A\$
(query) :UNIT:PFILTer? ch\$
(response) ch\$,A\$

ch\$=CH1_1 to CH7_2
A\$=OFF,ON

Explanation Sets the filter for the channel designated by ch\$.
Returns the current filter for the channel designated by ch\$ as character data.

Example :UNIT:PFILTer CH1_1,ON

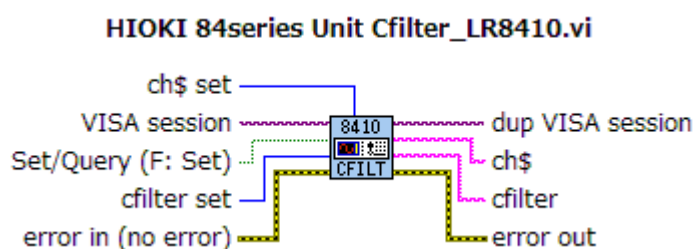
Sets the filter for CH1_1 to ON.

Note This command is effective only when LR8512 Wireless Pulse Logger's registered channel.

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4-3-62. HIOKI 84series Unit Cfilter_LR8410.vi

Sets or queries the clamp filter.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15)
(It can be used to 2 channels in each logger.) |
| Cfilter set | | Specifies the clamp filter
Valid range: 0(=OFF :Default),1(=ON) |
| ch\$ | | Specified channel |
| cfilter | | The result of the clamp filter |

* This command is effective only when LR8513 Wireless Clamp Logger.

Reference command (the LR8410,LR8416 command.)

(17) Sets and queries the clamp filter.

Syntax (command) :UNIT:CFILT ch\$,A\$
(query) :UNIT:CFILT? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_2
A\$=OFF,ON

Explanation Sets the filter for the channel designated by ch\$.
Returns the current filter for the channel designated by ch\$ as character data.

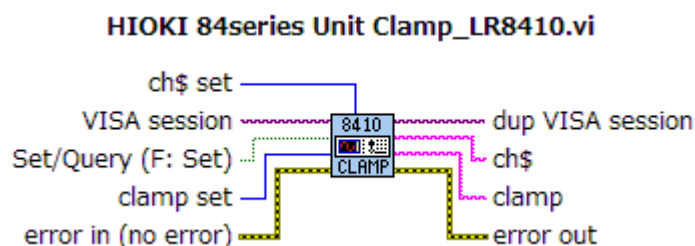
Example :UNIT:CFILT CH1_1,ON
Sets the filter for CH1_1 to ON.

Note This command is effective only when LR8513 Wireless Clamp Logger's registered channel.

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4-3-63. HIOKI 84series Unit Clamp_LR8410.vi

Sets or queries the clamp sensor.



| Name | Data type | Explanation |
|------------------|-----------|--|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15)
(It can be used to 2 channels in each logger.) |
| Clamp set | | Specifies the clamp sensor
Valid range::0(=9675 :Default),1(=9657-10),2(=9695-02),3(=CT6500),
4(=9669),5(=CT9691-90),6(=CT9692-90),7(=CT9693-90) |
| ch\$ | | Specified channel |
| clamp | | The result of the clamp sensor |

* This command is effective only when LR8513 Wireless Clamp Logger.

Reference command (the LR8410,LR8416 command.)

(18) Sets and queries the clamp sensor.

Syntax (command) :UNIT:CLAMP ch\$,A\$
(query) :UNIT:CLAMP? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_2

A\$=9675,9657-10,9695-02,CT6500,9669,CT9691-90,CT9692-90,CT9693-90

Explanation Sets the sensor for the channel designated by ch\$.
Returns the current sensor for the channel designated by ch\$ as character data.

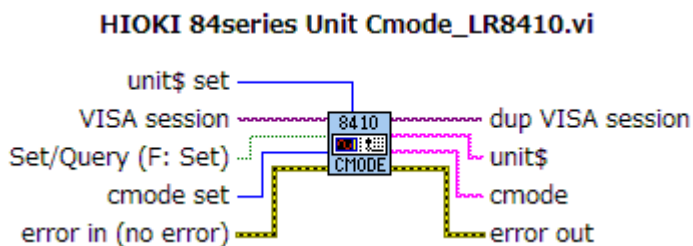
Example :UNIT:CLAMP CH1_1,9675
Sets the sensor for CH1_1 to 9675.

Note This command is effective only when LR8513 Wireless Clamp Logger's registered channel.

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4-3-64. HIOKI 84series Unit Cmode_LR8410.vi

Sets or queries the clamp mode.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| unit\$ set | | Specifies the unit
Valid range: 0(=UNIT1) to 6(=UNIT7) |
| Cmode set | | Specifies the clamp mode
Valid range: 0(=INST :Default),1(=AVE) |
| unit\$ | | Specified unit |
| cmode | | The result of the clamp mode |

* This command is effective only when LR8513 Wireless Clamp Logger.

Reference command (the LR8410,LR8416 command.)

(19) Sets and queries the clamp mode.

Syntax (command) :UNIT:CMODE unit\$,A\$
 (query) :UNIT:CMODE? unit\$
 (response) unit\$,A\$
 unit\$=UNIT1 to UNIT7
 A\$=INST,AVE

Explanation Sets the mode for the channel designated by unit\$.
 Returns the current mode the unit designated by
 unit\$ as character data.

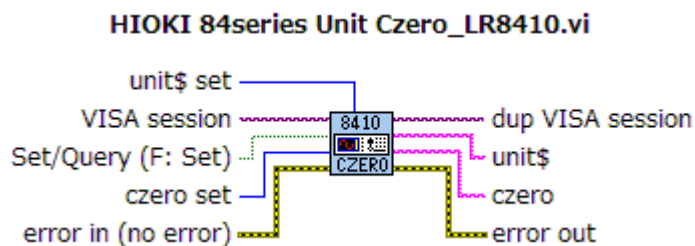
Example :UNIT:CMODE UNIT1,INST
 Sets the mode for UNIT1 to INST.

Note This command is effective only when LR8513 Wireless Clamp Logger's registered
 channel.

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4-3-65. HIOKI 84series Unit Czero_LR8410.vi

Sets or queries the clamp zero suppress.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| unit\$ set | | Specifies the unit
Valid range: 0(=UNIT1) to 6(=UNIT7) |
| Czero set | | Specifies the clamp zero suppress
Valid range: 0(=OFF),1(=ON :Default) |
| unit\$ | | Specified unit |
| czero | | The result of the clamp zero suppress |

* This command is effective only when LR8513 Wireless Clamp Logger.

Reference command (the LR8410,LR8416 command.)

(20) Sets and queries the clamp zero suppress.

Syntax (command) :UNIT:CZErO unit\$,A\$
(query) :UNIT:CZErO? unit\$
(response) unit\$,A\$
unit\$=UNIT1 to UNIT7
A\$=OFF,ON

Explanation Sets the zero suppress for the channel designated by unit\$.
Returns the current zero suppress the unit designated by unit\$ as character data.

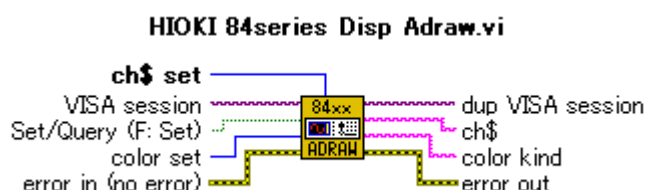
Example :UNIT:CZErO UNIT1,ON
Sets the zero suppress for UNIT1 to ON.

Note This command is effective only when LR8513 Wireless Clamp Logger's registered channel

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4-3-66. HIOKI 84series Disp Adraw.vi

Sets or queries waveform display color.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 59(=CH4_15) |
| Color set | | Specifies the waveform display color
Valid range: 0(=OFF), 1(=C1) to 24(=C24) |
| ch\$ | | Specified channel |
| color | | The result of querying the waveform display color |

Reference command (the LR8400,LR8401,LR8402 command.)

(5) Sets and queries the waveform display color.

Syntax (command) :DISPlay:DRAWing ch\$,A\$
(query) :DISPlay:DRAWing? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH4_15
A\$=OFF,C1 to C24

Explanation Sets the waveform display color for the channel designated by ch\$.
Returns the waveform display color for the channel designated by ch\$ as character data.

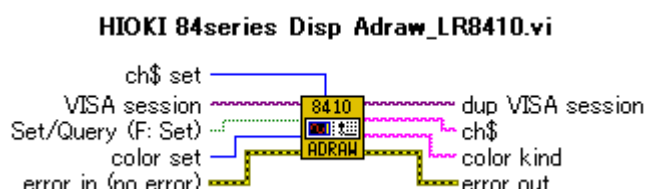
Example :DISPlay:DRAWing CH1_1,C1
Displays the channel 1-1 waveform in display color 1.

Note This command is effective only when LR8501 Universal Unit
or LR8500 Volt/Temp Unit.

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4-3-67. HIOKI 84series Disp Adraw_LR8410.vi

Sets or queries waveform display color.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| Color set | | Specifies the waveform display color
Valid range: 0(=OFF), 1(=C1) to 24(=C24) |
| ch\$ | | Specified channel |
| color | | The result of querying the waveform display color |

Reference command (the LR8410,LR8416 command.)

(5) Sets and queries the waveform display color.

Syntax (command) :DISPlay:DRAWing ch\$,A\$
(query) :DISPlay:DRAWing? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_15
A\$=OFF,C1 to C24

Explanation Sets the waveform display color for the channel designated by ch\$.
Returns the waveform display color for the channel designated by ch\$ as character data.

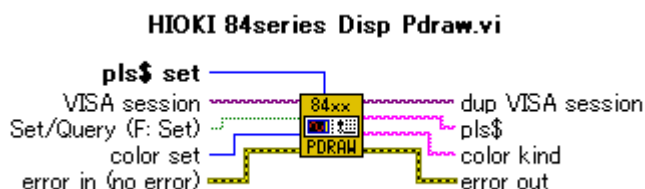
Example :DISPlay:DRAWing CH1_1,C1
Displays the channel 1-1 waveform in display color 1.

Note This command is effective only when LR8511 Wireless Universal Unit or LR8510 Wireless Volt/Temp Unit or LR8512 Wireless Pulse Logger or LR8513 Wireless Clamp Logger or LR8514 Wireless Humidity Logger or LR8515 Wireless Voltage/Temp Logger or LR8520 Wireless Fungal Logger's registered channel.

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4-3-68. HIOKI 84series Disp Pdraw.vi

Sets or queries pulse waveform display color.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| pls\$ set | | Specifies the pulse channel
Valid range: 0(=PLS1) to 7(=PLS8) |
| Color set | | Specifies the pulse waveform display color
Valid range: 0(=OFF), 1(=C1) to 24(=C24) |
| pls\$ | | Specified pulse channel |
| color | | The result of querying the pulse waveform display color |

Reference command (the LR8400,LR8401,LR8402 command.)

(6) Sets and queries the pulse waveform display color.

Syntax (command) :DISPlay:PDRAWing pls\$,A\$
(query) :DISPlay:PDRAWing? pls\$
(response) pls\$,A\$
pls\$=PLS1 to PLS8
A\$=OFF,C1 to C24

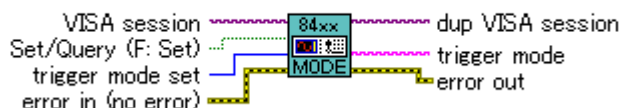
Explanation Sets the pulse waveform display color for the channel designated by pls\$.
Returns the pulse waveform display color for the channel designated by pls\$ as character data.

Example :DISPlay:PDRAWing PLS1,C1
Displays the pulse 1 waveform in display color 1.

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4-3-69. HIOKI 84series Trig Mode.vi
Sets or queries trigger mode.

HIOKI 84series Trig Mode.vi



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| trigger mode set | | Specifies the trigger mode
Valid range: 0 (=SINGLE: Default), 1 (=REPEAT) |
| trigger mode | | The result of querying the trigger mode |

Reference command (the 8423 command.)

(2) Sets and queries the trigger mode.

Syntax (command) :TRIGger:MODE A\$
(query) :TRIGger:MODE?
(response) A\$
A\$=SINGle,REPEat

Explanation Sets the trigger mode.
Returns the current trigger mode as character data.

Example :TRIGger:MODE REPEat
Sets the trigger mode to repeat.

Reference command (the LR8400,LR8401,LR8402 command.)

(2) Sets and queries the trigger mode.

Syntax (command) :TRIGger:MODE A\$
(query) :TRIGger:MODE?
(response) A\$
A\$=SINGle,REPEat

Explanation Sets the trigger mode.
Returns the current trigger mode as character data.

Example :TRIGger:MODE REPEat
Sets the trigger mode to repeat.

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Reference command (the LR8410,LR8416 command.)

(2) Sets and queries the trigger mode.

Syntax (command) :TRIGger:MODE A\$
(query) :TRIGger:MODE?
(response) A\$
A\$=SINGle,REPEat
(SINGle=repeat off, REPEat=repeat on)

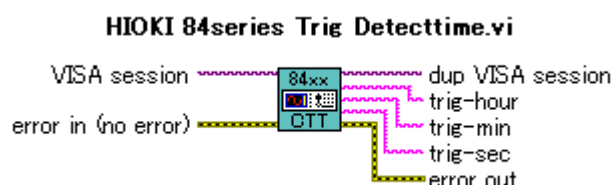
Explanation Sets the trigger mode.
Returns the current trigger mode as character data.

Example :TRIGger:MODE REPEat
Sets the trigger mode to repeat.

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4-3-70. HIOKI 84series Trig Detecttime.vi

Sets or queries the time point for trigger detection.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| trig-hour set | | Specifies the time(hour) for trigger detection
Valid range: 0 – 23 |
| trig-min set | | Specifies the time(minute) for trigger detection
Valid range: 0 – 59 |
| trig-sec set | | Specifies the time(second) for trigger detection
Valid range: 0 – 59 |
| trig-hour | | The result of querying the time(hour) for trigger detection |
| trig-min | | The result of querying the time(minute) for trigger detection |
| trig-sec | | The result of querying the time(second) for trigger detection |

Reference command (the 8423 command.)

(22) Sets and queries the time point for trigger detection.

Syntax (command) :TRIGger:DETECTTime A,B,C
(query) :TRIGger:DETECTTime?
(response) A,B,C

A=hour:0 to 23(hour)

B=min :0 to 59(min)

C=sec :0 to 59(sec)

hour,min,sec<NR1>

Explanation Sets the time point for trigger detection.

Returns the setting for the time point for trigger detection as a numerical value in NR1 format.

Example :TRIGger:DETECTTime?

The currently set time point for trigger detection is

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Reference command (the LR8400,LR8401,LR8402 command.)

(31) Sets and queries the time point for trigger detection.

Syntax (command) :TRIGger:DETECTTime A,B,C
(query) :TRIGger:DETECTTime?
(response) A,B,C
A=hour:0 to 23(hour)
B=min :0 to 59(min)
C=sec :0 to 59(sec)
hour,min,sec<NR1>

Explanation Sets the time point for trigger detection.
Returns the setting for the time point for trigger detection as a numerical value in NR1 format.

Example :TRIGger:DETECTTime?
The currently set time point for trigger detection is queried.

Reference command (the LR8410,LR8416 command.)

(21) Sets and queries the time point for trigger detection.

Syntax (command) :TRIGger:DETECTTime A,B,C
(query) :TRIGger:DETECTTime?
(response) A,B,C
A=hour:0 to 23(hour)
B=min :0 to 59(min)
C=sec :0 to 59(sec)
hour,min,sec<NR1>

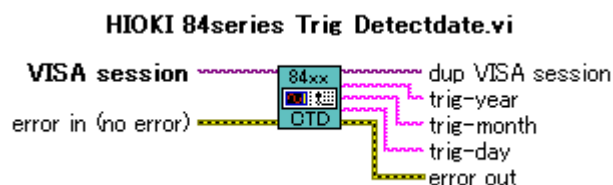
Explanation Sets the time point for trigger detection.
Returns the setting for the time point for trigger detection as a numerical value in NR1 format.

Example :TRIGger:DETECTTime?
The currently set time point for trigger detection is queried.

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4-3-71. HIOKI 84series Trig Detectdate.vi

Sets or queries the date for trigger detection.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| trig-year set | | Specifies the date(year) for trigger detection
Valid range: 0 – 99 |
| trig-month set | | Specifies the date(month) for trigger detection
Valid range: 0 – 12 |
| trig-day set | | Specifies the date(day) for trigger detection
Valid range: 0 – 31 |
| trig-year | | The result of querying the date(year) for trigger detection |
| trig-month | | The result of querying the date(month) for trigger detection |
| trig-day | | The result of querying the date(day) for trigger detection |

Reference command (the 8423 command.)

(23) Sets and queries the date for trigger detection.

Syntax (command) :TRIGger:DETECTDate A,B,C
(query) :TRIGger:DETECTDate?
(response) A,B,C
A=year :0 to 99(year)
B=month:1 to 12(month)
C=day :1 to 31(day)
year,month,day<NR1>

Explanation Sets the date for trigger detection.
Returns the setting for the date for trigger detection as a numerical value in NR1 format.

Example :TRIGger:DETECTDate?
The currently set date for trigger detection is queried.

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Reference command (the LR8400,LR8401,LR8402 command.)

(32) Sets and queries the date for trigger detection.

Syntax (command) :TRIGger:DETECTDate A,B,C
(query) :TRIGger:DETECTDate?
(response) A,B,C
A=year :0 to 99(year)
B=month:1 to 12(month)
C=day :1 to 31(day)
year,month,day<NR1>

Explanation Sets the date for trigger detection.
Returns the setting for the date for trigger detection
as a numerical value in NR1 format.

Example :TRIGger:DETECTDate?
The currently set date for trigger detection is queried.

Reference command (the LR8400,LR8416 command.)

(22) Sets and queries the date for trigger detection.

Syntax (command) :TRIGger:DETECTDate A,B,C
(query) :TRIGger:DETECTDate?
(response) A,B,C
A=year :0 to 99(year)
B=month:1 to 12(month)
C=day :1 to 31(day)
year,month,day<NR1>

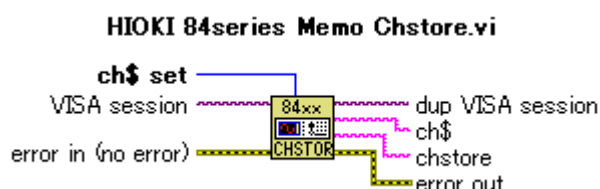
Explanation Sets the date for trigger detection.
Returns the setting for the date for trigger detection
as a numerical value in NR1 format.

Example :TRIGger:DETECTDate?
The currently set date for trigger detection is queried.

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4-3-72. HIOKI 84series Memo Chstore.vi

Queries stored record data for each channel.



| Name | Data type | Explanation |
|----------|-----------|--|
| ch\$ set | | Specifies the channel
Valid range: CH1_1 to CH4_15,PLS1 to PLS8,LOG,ALARM,W1 to W30 |
| chstore | | Queries stored record data for each channel
0(=OFF),1(=ON) |

Reference command (the LR8400,LR8401,LR8402 command.)

(3) Queries stored record data for each channel.

Syntax (query) :MEMory:CHSTore? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH4_15,PLS1 to PLS8,LOG,ALARM,W1 to W30
A\$=OFF(not stored),ON(stored)

Explanation Returns stored record data for each channel as character data.

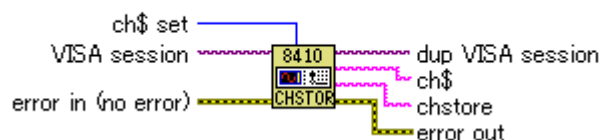
Example (query) :MEMory:CHSTore? CH1_1
(response) :MEMory:CHSTore CH1_1,ON(HEADER ON)
The data of CH1_1 is stored in storage memory.



| | | |
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4-3-73. HIOKI 84series Memo Chstore_LR8410.vi

Queries stored record data for each channel.

HIOKI 84series Memo Chstore_LR8410.vi



| Name | Data type | Explanation |
|----------|---|---|
| ch\$ set |  | Specifies the channel
Valid range: CH1_1 to CH7_15,ALARM,W1 to W30 |
| chstore |  | Queries stored record data for each channel
0(=OFF),1(=ON) |

Reference command (the LR8410,LR8416 command.)

(3) Queries stored record data for each channel.

Syntax (query) :MEMory:CHSTore? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_15,ALARM,W1 to W30
A\$=OFF(not stored),ON(stored)

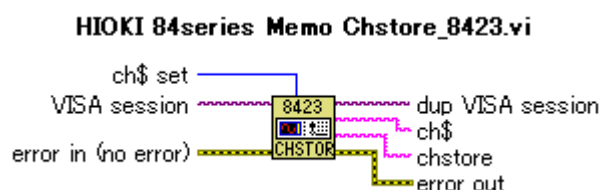
Explanation Returns stored record data for each channel as character data.



Example (query) :MEMory:CHSTore? CH1_1
(response) :MEMory:CHSTore CH1_1,ON(HEADER ON)
The data of CH1_1 is stored in storage memory.

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4-3-74. HIOKI 84series Memo Chstore_8423.vi

Queries stored record data for each channel.



| Name | Data type | Explanation |
|----------|--|---|
| ch\$ set |  | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| chstore |  | Queries stored record data for each channel
0(=OFF),1(=ON) |

Reference command (the 8423 command.)

(3) Queries stored record data for each channel.

Syntax (query) :MEMory:CHSTore? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=OFF(not stored),ON(stored)

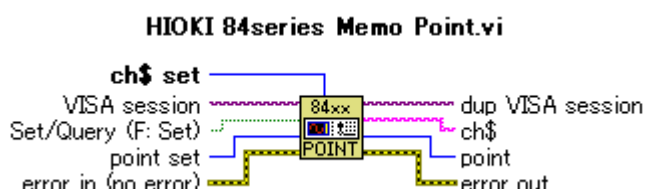
Explanation Returns stored record data for each channel as character data.

Example (query) :MEMory:CHSTore? UNIT1,CH1
(response) :MEMory:CHSTore UNIT1,CH1,ON(HEADER ON)
The data of UNIT1,CH1 is stored in storage memory.

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4-3-75. HIOKI 84series Memo Point.vi

Sets or queries the point in memory for input/output.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: CH1_1 to CH4_15,PLS1 to PLS8,LOG,ALARM,W1 to W30 |
| point set | | Specifies the number of points in memory for input/output.
(can be set only to a value less than that returned by the HIOKI 84series Memo Maxpoint.vi) |
| ch\$ | | Specified channel |
| point | | The result of querying the point in memory for input/output. |

Reference command (the LR8400,LR8401,LR8402 command.)

(1) Sets and queries the point in memory for input/output.

Syntax (command) :MEMory:POINt ch\$,A
(query) :MEMory:POINt?
(response) ch\$,A<NR1>
ch\$=CH1_1 to CH4_15,PLS1 to PLS8,LOG,ALARM,W1 to W30
A=0 to 8388607(maximum at only 1 channel)

Explanation Sets the input/output point in memory.
Returns the current input/output point in memory as an NR1 numerical value.

Example :MEMory:POINt CH1_1,100
Sets the input/output point for unit1,channel 1-1 to the 100th location from the start of memory.

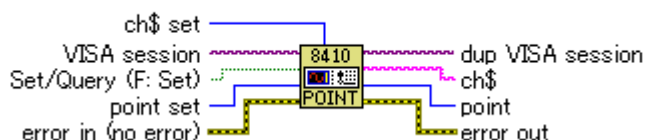
Note It becomes an execution error, when the channel is not data stored.






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4-3-76. HIOKI 84series Memo Point_LR8410.vi

Sets or queries the point in memory for input/output.

HIOKI 84series Memo Point_LR8410.vi



| Name | Data type | Explanation |
|------------------|---|---|
| Set/Query(F:Set) |  | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set |  | Specifies the channel
Valid range: CH1_1 to CH7_15,ALARM,W1 to W30 |
| point set |  | Specifies the number of points in memory for input/output.
(can be set only to a value less than that returned by the HIOKI 84series Memo Maxpoint.vi) |
| ch\$ |  | Specified channel |
| point |  | The result of querying the point in memory for input/output. |

Reference command (the LR8410,LR8416 command.)

(1) Sets and queries the point in memory for output.

Syntax (command) :MEMory:POINt ch\$,A
(query) :MEMory:POINt?
(response) ch\$,A<NR1>
ch\$=CH1_1 to CH7_15,ALARM,W1 to W30
A=0 to 8388607(maximum at only 1 channel)

Explanation Sets the output point in memory.
Returns the current output point in memory as an NR1 numerical value.

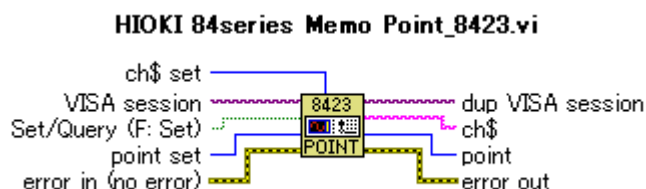
Example :MEMory:POINt CH1_1,100
Sets the output point for unit1,channel 1-1 to the 100th location from the start of memory.

Note It becomes an execution error, when the channel is not data stored.

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4-3-77. HIOKI 84series Memo Point_8423.vi

Sets or queries the point in memory for input/output.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| point set | | Specifies the number of points in memory for input/output.
(can be set only to a value less than that returned by the HIOKI 8423 Memo Maxpoint.vi) |
| ch\$ | | Specified channel |
| point | | The result of querying the point in memory for input/output. |

Reference command (the 8423 command.)

(1) Sets and queries the point in memory for input/output.

Syntax (command) :MEMory:POINt unit\$,ch\$,A
(query) :MEMory:POINt?
(response) unit\$,ch\$,A<NR1>
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A=0 to 16777215(maximum at only 1 channel)

Explanation Sets the input/output point in memory.
Returns the current input/output point in memory as an NR1 numerical value.

Example :MEMory:POINt UNIT1,CH1,100
Sets the input/output point for unit1,channel 1 to the 100th location from the start of memory.

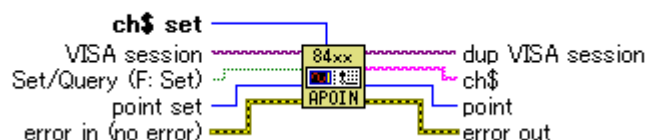
Note It becomes an execution error, when the channel is not data stored.

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4-3-78. HIOKI 84series Memo Apoint.vi

Sets or queries the point in memory for input/output.
(when longer data is stored than the inside memory)

HIOKI 84series Memo Apoint.vi



| Name | Data type | Explanation |
|------------------|-----------|--|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: CH1_1 to CH4_15, PLS1 to PLS8, LOG, ALARM, W1 to W30 |
| point set | | Specifies the number of points in memory for input/output.
(can be set only to a value less than that returned by the HIOKI 84series Memo Amaxpoint.vi) |
| ch\$ | | Specified channel |
| point | | The result of querying the point in memory for input/output. |

Reference command (the LR8400,LR8401,LR8402 command.)

(12) Sets and queries the point in memory for input/output.

(when longer data is stored than the inside memory)

Syntax (command) :MEMory:APoint ch\$,A
(query) :MEMory:APoint?
(response) ch\$,A
ch\$=CH1_1 to CH4_15, PLS1 to PLS8, LOG, ALARM, W1 to W30
A=0 to

Explanation Sets the input/output point in memory.
Returns the current input/output point in memory as an NR1 numerical value.

Example :MEMory:APoint CH1_1,100
Sets the input/output point for channel 1-1 to the 100th location from the start of memory.

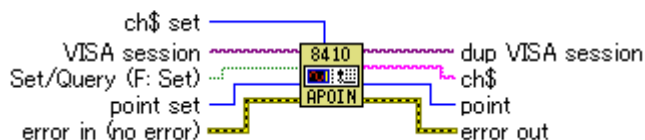
Note It becomes an execution error, when the channel is not data stored.

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4-3-79. HIOKI 84series Memo Apoin_LR8410t.vi

Sets or queries the point in memory for input/output.
(when longer data is stored than the inside memory)

HIOKI 84series Memo Apoint_LR8410.vi



| Name | Data type | Explanation |
|------------------|-----------|--|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: CH1_1 to CH7_15,ALARM,W1 to W30 |
| point set | | Specifies the number of points in memory for input/output.
(can be set only to a value less than that returned by the HIOKI 84series Memo Amaxpoint.vi) |
| ch\$ | | Specified channel |
| point | | The result of querying the point in memory for input/output. |

Reference command (the LR8410,LR8416 command.)

(11) Sets and queries the point in memory for output.

(when longer data is stored than the inside memory)

Syntax (command) :MEMory:APoint ch\$,A
(query) :MEMory:APoint?
(response) ch\$,A
ch\$=CH1_1 to CH7_15,ALARM,W1 to W30
A=0 to

Explanation Sets the output point in memory.
Returns the current output point in memory as an NR1 numerical value.

Example :MEMory:APoint CH1_1,100
Sets the output point for channel 1-1 to the 100th location from the start of memory.

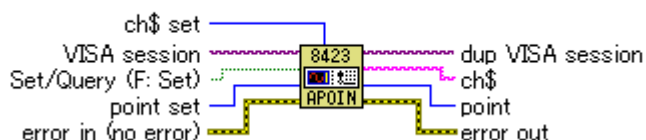
Note It becomes an execution error, when the channel is not data stored.

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4-3-80. HIOKI 84series Memo Apoint_8423.vi

Sets or queries the point in memory for input/output.
(when longer data is stored than the inside memory)

HIOKI 84series Memo Apoint_8423.vi



| Name | Data type | Explanation |
|------------------|-----------|--|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| point set | | Specifies the number of points in memory for input/output.
(can be set only to a value less than that returned by the HIOKI 84series Memo Amaxpoint.vi) |
| ch\$ | | Specified channel |
| point | | The result of querying the point in memory for input/output. |

Reference command (the 8423 command.)

(12) Sets and queries the point in memory for input/output.

(when longer data is stored than the inside memory)

Syntax (command) :MEmory:APOINT unit\$,ch\$,A
(query) :MEmory:APOINT?
(response) ch\$,A (no return unit\$)
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A=0 to

Explanation Sets the input/output point in memory.
Returns the current input/output point in memory as an NR1 numerical value.

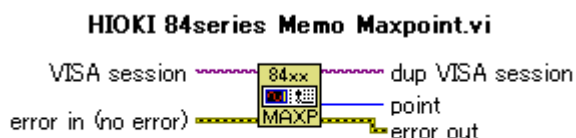
Example :MEmory:APOINT UNIT1,CH1,100
Sets the input/output point for unit1,channel 1 to the 100th location from the start of memory.

Note It becomes an execution error, when the channel is not data stored.

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4-3-81. HIOKI 84series Memo Maxpoint.vi

Queries the number of data samples stored.



| Name | Data type | Explanation |
|-------|-----------|--|
| point | | The result of querying the number of data samples stored |

Reference command (the 8423 command.)

(2) Queries the number of data samples stored.

Syntax (query) :MEMory:MAXPoint?
(response) A <NR1>
A = 0 : no data stored
1 to 16777215

Explanation Returns the number of data samples stored in the memory as a numerical value in NR1 format.

Example (query) :MEMory:MAXPoint?
(response) :MEMory:MAXPoint 800 (when headers are on)
The number of data samples stored in the memory is 800.

Reference command (the LR8400,LR8401,LR8402 command.)

(2) Queries the number of data samples stored.

Syntax (query) :MEMory:MAXPoint?
(response) A <NR1>
A = 0 : no data stored
1 to 8388608

Explanation Returns the number of data samples stored in the memory as a numerical value in NR1 format.

Example (query) :MEMory:MAXPoint?
(response) :MEMory:MAXPoint 800 (when headers are on)
The number of data samples stored in the memory is 800.

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Reference command (the LR8410,LR8416 command.)

(2) Queries the number of data samples stored.

Syntax (query) :MEMory:MAXPoint?
(response) A <NR1>
A = 0 : no data stored
1 to 8388608

Explanation Returns the number of data samples stored in the memory as a numerical value in NR1 format.

Example (query) :MEMory:MAXPoint?
(response) :MEMory:MAXPoint 800 (when headers are on)
The number of data samples stored in the memory is 800.

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4-3-82. HIOKI 84series Memo Amaxpoint.vi

Queries the number of data samples stored.

(when longer data is stored than the inside memory)

HIOKI 84series Memo Amaxpoint.vi



| Name | Data type | Explanation |
|-------|-----------|--|
| point | | The result of querying the number of data samples stored |

Reference command (the 8423 command.)

(13) Queries the end of data samples stored.

(when longer data is stored than the inside memory)

Syntax (query) :MEMory:AMAXPoint?

(response) A

A = 0 : no data stored

1 to

Explanation Returns the end of data samples stored in the memory as a numerical value in NR1 format.

Example (query) :MEMory:AMAXPoint?

(response) :MEMory:AMAXPoint 800 (when headers are on)

The end of data samples stored in the memory is 800.

Reference command (the LR8400,LR8401,LR8402 command.)

(13) Queries the end of data samples stored.

(when longer data is stored than the inside memory)

Syntax (query) :MEMory:AMAXPoint?

(response) A

A = 0 : no data stored

1 to

Explanation Returns the end of data samples stored in the memory as a numerical value in NR1 format.

Example (query) :MEMory:AMAXPoint?

(response) :MEMory:AMAXPoint 800 (when headers are on)

The end of data samples stored in the memory is 800.

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Reference command (the LR8410,LR8416 command.)

(12) Queries the end of data samples stored.

(when longer data is stored than the inside memory)

Syntax (query) :MEMory:AMAXPoint?

(response) A

A = 0 : no data stored

1 to

Explanation Returns the end of data samples stored in the memory as a numerical value in NR1 format.

Example (query) :MEMory:AMAXPoint?

(response) :MEMory:AMAXPoint 800 (when headers are on)

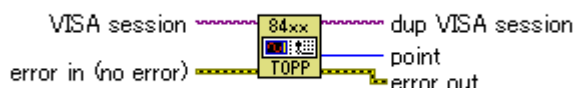
The end of data samples stored in the memory is 800.

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4-3-83. HIOKI 84series Memo Toppoint.vi

Queries the top of data samples stored.
(when longer data is stored than the inside memory)

HIOKI 84series Memo Toppoint.vi



| Name | Data type | Explanation |
|-------|-----------|---|
| point | | The result of querying the top of data samples stored |

Reference command (the 8423 command.)

(14) Queries the top of data samples stored.

(when longer data is stored than the inside memory)

Syntax (query) :MEMory:TOPPoint?
(response) A

A = 0 : no data stored
1 to

Explanation Returns the top of data samples stored in the memory as
a numerical value in NR1 format.

Example (query) :MEMory:TOPPoint?
(response) :MEMory:TOPPoint 100 (when headers are on)
The top of data samples stored in the memory is 100.

Reference command (the LR8400,LR8401,LR8402.command)

(14) Queries the top of data samples stored.

(when longer data is stored than the inside memory)

Syntax (query) :MEMory:TOPPoint?
(response) A

A = 0 : no data stored
1 to

Explanation Returns the top of data samples stored in the memory as
a numerical value in NR1 format.

Example (query) :MEMory:TOPPoint?
(response) :MEMory:TOPPoint 100 (when headers are on)
The top of data samples stored in the memory is 100.

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Reference command (the LR8410,LR8416.command)

(13) Queries the top of data samples stored.

(when longer data is stored than the inside memory)

Syntax (query) :MEMory:TOPPoint?

(response) A

A = 0 : no data stored

1 to

Explanation Returns the top of data samples stored in the memory as a numerical value in NR1 format.

Example (query) :MEMory:TOPPoint?

(response) :MEMory:TOPPoint 100 (when headers are on)

The top of data samples stored in the memory is 100.

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4-3-84. HIOKI 84series Memo Adata.vi

Inputs data to memory, or outputs stored data.

HIOKI 84series Memo Adata.vi



| Name | Data type | Explanation |
|---------------|-----------|--|
| output number | | The number of data to output
Valid range: 1- 80 |
| adata array | | The output of stored data * |

* Refer to MEMORY HiLOGGER manual to get details.

Reference command (the 8423 command.)

(5) Inputs data to memory, and outputs stored data.(ASCII)

Syntax (command) :MEMory:ADATa B,C,...
(query) :MEMory:ADATa? A
(response) B,C,... <NR1>
B,C,... =-32768 to 32767(8949,8948 unit data)
0 to 1000000000(8996 unit pulse data)
0,1(8996 unit digital in data)
0,1(8997 unit alarm out data)
A=1 to 80(number of data values to be output)

Explanation Puts the data of the data portion into the memory at the channel and point set by the :MEMory:POINT command.
If there are several data values, they are input in order from the point set by the :MEMory:POINT command.
The input/output point is incremented by the number of data values.
The number of data values specified by A are output from the memory channel and point set by the :MEMory:POINT command. The input/output point is incremented by the number of data values.

Example :MEMory:POINT UNIT1,CH1,0
:MEMory:ADATa? 10
Sets the input/output point to unit 1,channel 1 and data value zero in memory, then outputs 10 stored data values.

When allowed provided that stored data is present, and provided that the input/output point is lower than the amount of data stored.

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Reference command (the LR8400,LR8401,LR8402 command.)

(5) Inputs data to memory, and outputs stored data.(ASCII)

Syntax (command) :MEMory:ADATa B,C,...
(query) :MEMory:ADATa? A
(response) B,C,... <NR1>
B,C,... =-32768 to 32767(CH1_1 to CH4_15)
0 to 1000000000(PLS1 to PLS8)
0 to 255(LOG)
0 to 15(ALARM)
wave calc=NR3(W1 to W30)
A=1 to 80(number of data values to be output)

Explanation Puts the data of the data portion into the memory at the channel and point set by the :MEMory:POINT command.
If there are several data values, they are input in order from the point set by the :MEMory:POINT command.
The input/output point is incremented by the number of data values.
The number of data values specified by A are output from the memory channel and point set by the :MEMory:POINT command. The input/output point is incremented by the number of data values.

Example :MEMory:POINT CH1_1,0
:MEMory:ADATa? 10
Sets the input/output point to unit 1,channel 1 and data value zero in memory, then outputs 10 stored data values.

Reference command (the LR8410,LR8416 command.)

(4) Outputs data from memory.(ASCII)

Syntax (query) :MEMory:ADATa? A
(response) B,C,... <NR1>
B,C,... =-32768 to 32767(CH1_1 to CH7_15)
0 to 1000000000(Count、Revolve)
0 to 1(Logic)
0 to 15(ALARM)
wave calc=NR3(W1 to W30)
A=1 to 80(number of data values to be output)

Explanation The number of data values specified by A are output from the memory channel and point set by the :MEMory:POINT command. The output point is incremented by the number of data values.

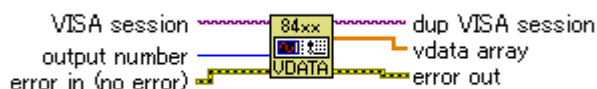
Example :MEMory:POINT CH1_1,0
:MEMory:ADATa? 10
Sets the output point to unit 1,channel 1 and data value zero in memory, then outputs 10 stored data values.

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4-3-85. HIOKI 84series Memo Vdata.vi

Inputs voltage data to memory, or outputs voltage data from memory.

HIOKI 84series Memo Vdata.vi



| Name | Data type | Explanation |
|---------------|-----------|--|
| output number | | The number of voltage data to output
Valid range: 1 to 40 |
| vdata array | | The output of voltage data from memory * |

* Refer to MEMORY HiLOGGER manual to get details.

Reference command (the 8423 command.)

(6) Input voltage data to memory, and output voltage data from memory.

(volt,tc,rtd,humid,count,revolve)

Syntax (command) :MEMory:VDATa B,C,...
(query) :MEMory:VDATa? A
(response) B,C,... <NR3>
B,C,... =volt,tc,rtd,humid(8949,8948 unit data)
count,revolve(8996 unit pulse data)
0,1(8996 unit digital in data)
0,1(8997 unit alarm out data)
A=1 to 40(data num)

Explanation Puts the data values (volt,tc,rtd,humid,count,revolve values) in the data portion into the memory at the channel and point set by the :MEMory:POINT command.
If there are several data values, they are input in order from the point set by the :MEMory:POINT command.
The input/output point is incremented by the number of data values.
The number of stored data values specified by A are output as voltage values from the memory channel and point set by the :MEMory:POINT command.
The input/output point is incremented by the number of data values.

Example :MEMory:POINT UNIT1,CH1,0
:MEMory:VDATa? 10
Sets the input/output point to channel 1 and data value zero in memory, then outputs 10 stored data values as voltage values.

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Reference command (the LR8400,LR8401,LR8402 command.)

(6) Input voltage data to memory, and output voltage data from memory.

(volt,tc,rtd,humid,resist,count,revolve)

Syntax (command) :MEMory:VDAta B,C,...
(query) :MEMory:VDAta? A
(response) B,C,... <NR3>
B,C,... =volt,tc,rtd,humid,resist(CH1_1 to CH4_15 analog
data)
count,revolve(PLS1 to PLS8 pulse data)
0 to 255(LOG digital in data)
0 to 15(ALARM alarm out data)
wave calc(W1 to W30 wave calc data)
A=1 to 40(data num)

Explanation Puts the data values (volt,tc,rtd,humid,resist,count,revolve values)
in the data portion into the memory at the channel and point
set by the :MEMory:POINt command.

If there are several data values, they are input in order
from the point set by the :MEMory:POINt command.

The input/output point is incremented by the number of data values.
The number of stored data values specified by A are output
as voltage values from the memory channel and point set
by the :MEMory:POINt command.

The input/output point is incremented by the number of data values.

Example :MEMory:POINt CH1_1,0
:MEMory:VDAta? 10
Sets the input/output point to channel 1-1 and data value
zero in memory, then outputs 10 stored data values as voltage values.

Reference command (the LR8410,LR8416 command.)

(5) Output voltage data from memory.

(volt,tc,rtd,humid,resist)

Syntax (query) :MEMory:VDAta? A
(response) B,C,... <NR3>
B,C,... =volt,tc,rtd,humid,resist,heat,count,revolve,
logic,current,temp,findex,fgrowth
(CH1_1 to CH7_15 analog data)
0 to 15(ALARM alarm out data)
wave calc(W1 to W30 wave calc data)
A=1 to 40(data num)

Explanation The number of stored data values specified by A are output
as voltage values from the memory channel and point set
by the :MEMory:POINt command.

The output point is incremented by the number of data
values.

When scaling, the scaled values are output.

When calculating the waveform, calculated results are output.

Example :MEMory:POINt CH1_1,0
:MEMory:VDAta? 10
Sets the output point to channel 1-1 and data value
zero in memory, then outputs 10 stored data values as voltage values.

| | | |
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4-3-86. HIOKI 84series Memo Getreal.vi

Captures real time data.



| Name | Data type | Explanation |
|------|-----------|--|
| | | There is no input and output except common inputs and common outputs |

Reference command (the 8423 command.)

(7) Captures real time data.

Syntax (command) :MEMory:GETReal

Explanation Captures the values which are currently input on the channel for all the channel.

Reference command (the LR8400,LR8401,LR8402 command.)

(7) Captures real time data.

Syntax (command) :MEMory:GETReal

Explanation Captures the values which are currently input on the channel for all the channel.

Reference command (the LR8410,LR8416 command.)

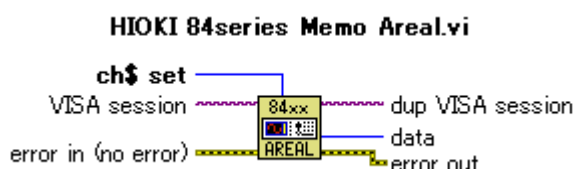
(6) Captures real time data.

Syntax (command) :MEMory:GETReal

Explanation Captures the values which are currently input on the channel for all the channel.

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4-3-87. HIOKI 84series Memo Areal.vi
Outputs real time data (in ASCII)



| Name | Data type | Explanation |
|----------|-----------|--|
| ch\$ set | | Specifies the channel
Valid range: CH1_1 to CH4_15,PLS1 to PLS8,LOG,ALARM,W1 to W30 |
| adata | | The output of real time data |

* When the [Captures real time data.] command is not executed before this command,
the returned value is not fixed.

Reference command (the LR8400,LR8401,LR8402 command.)

(8) Outputs real time data(ASCII)

Syntax (command) :MEMory:AREAI? ch\$
(response) A<NR1>
ch\$=CH1_1 to CH4_15,PLS1 to PLS8,LOG,ALARM,W1 to W30
A=-32768 to 32767(CH1_1 to CH4_15)
0 to 1000000000(PLS1 to PLS8)
0 to 255(LOG)
0 to 15(ALARM)
wave calc=NR3(W1 to W30)

Explanation Returns the value input on the channel designated by ch\$.

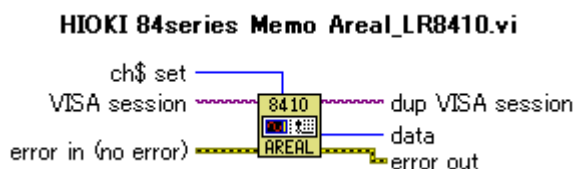
Example :MEMory:AREAI? CH1_1
:MEMory:AREAI 2000(HEADER ON)

Note When the :MEMory:GETReal command is not executed before
this command, the returned value is not fixed.

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4-3-88. HIOKI 84series Memo Areal_LR8410.vi

Outputs real time data (in ASCII)



| Name | Data type | Explanation |
|----------|-----------|--|
| ch\$ set | | Specifies the channel
Valid range: CH1_1 to CH7_15,LARM,W1 to W30 |
| adata | | The output of real time data |

* When the [Captures real time data.] command is not executed before this command, the returned value is not fixed.

Reference command (the LR8410,LR8416 command.)

(7) Outputs real time data(ASCII)

Syntax (command) :MEMory:AREAI? ch\$
(response) A<NR1>
ch\$=CH1_1 to CH7_15,ALARM,W1 to W30
A=-32768 to 32767(CH1_1 to CH7_15)
0 to 10000000000(Count、Revolve)
0 to 1(Logic)
0 to 15(ALARM)
wave calc=NR3(W1 to W30)

Explanation Returns the value input on the channel designated by ch\$.

Example :MEMory:AREAI? CH1_1
:MEMory:AREAI 2000(HEADER ON)

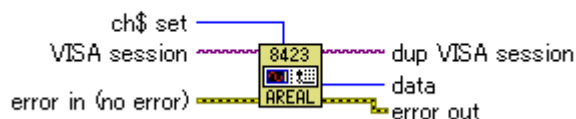
Note When the :MEMory:GETReal command is not executed before this command, the returned value is not fixed.

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4-3-89. HIOKI 84series Memo Areal_8423.vi

Outputs real time data (in ASCII)

HIOKI 84series Memo Areal_8423.vi



| Name | Data type | Explanation |
|----------|-----------|---|
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| adata | | The output of real time data |

* When the [Captures real time data.] command is not executed before this command,
the returned value is not fixed

Reference command (the 8423 command.)

(8) Outputs real time data(ASCII)

Syntax (command) :MEMory:AREAI? unit\$,ch\$
(response) A<NR1>
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A=-32768 to 32767(8949,8948 unit data)
0 to 1000000000(8996 unit pulse data)
0,1(8996 unit digital in data)
0,1(8997 unit alarm out data)

Explanation Returns the value input on the channel designated by ch\$.

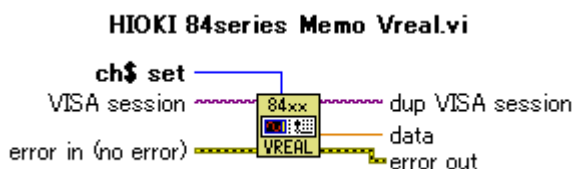
Example :MEMory:AREAI? UNIT1,CH1
:MEMory:AREAI 2000(HEADER ON)

Note When the :MEMory:GETReal command is not executed before
this command, the returned value is not fixed.

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4-3-90. HIOKI 84series Memo Vreal.vi

Outputs real time data (voltage values).



| Name | Data type | Explanation |
|----------|-----------|--|
| ch\$ set | | Specifies the channel
Valid range: CH1_1 to CH4_15, PLS1 to PLS8, LOG, ALARM, W1 to W30 |
| vdata | | The output of real time data
(unit: V, °C) |

* When the [Captures real time data.] command is not executed before this command, the returned value is not fixed.

Reference command (the LR8400,LR8401,LR8402 command.)

(9) Outputs real time data. (volt,tc,rtd,humid,resist,count,revolve)

Syntax (command) :MEMory:VREAL? ch\$
(response) A<NR3>
ch\$=CH1_1 to CH4_15, PLS1 to PLS8, LOG, ALARM, W1 to W30
A=volt,tc,rtd,humid,resist(CH1_1 to CH4_15 analog data)
count,revolve(PLS1 to PLS8 pulse data)
0 to 255(LOG digital in data)
0 to 15(ALARM alarm out data)
wave calc(W1 to W30 wave calc data)

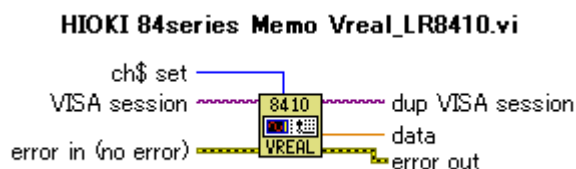
Explanation Returns as a voltage value the value input on the channel designated by ch\$.

Example :MEMory:VREAL? CH1_1
:MEMory:VREAL 4.7E-2(HEADER ON)

Note When the :MEMory:GETReal command is not executed before this command, the returned value is not fixed.

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4-3-91. HIOKI 84series Memo Vreal_LR8410.vi
Outputs real time data (voltage values).



| Name | Data type | Explanation |
|----------|-----------|---|
| ch\$ set | | Specifies the channel
Valid range: CH1_1 to CH7_15,ALARM,W1 to W30 |
| vdata | | The output of real time data
(unit: V、°C) |

* When the [Captures real time data.] command is not executed before this command,
the returned value is not fixed.

Reference command (the LR8410,LR8416 command.)

(8) Outputs real time data. (volt,tc,rtd,humid,resist)

Syntax (command) :MEMory:VREAL? ch\$
(response) A<NR3>
ch\$=CH1_1 to CH7_15,ALARM,W1 to W30
A=volt,tc,rtd,humid,resist,heat,count,revolve,logic,
current,findex,fgrowth (CH1_1 to CH7_15 analog data)
0 to 15(ALARM alarm out data)
wave calc(W1 to W30 wave calc data)

Explanation Returns as a voltage value the value input on the channel
designated by ch\$.

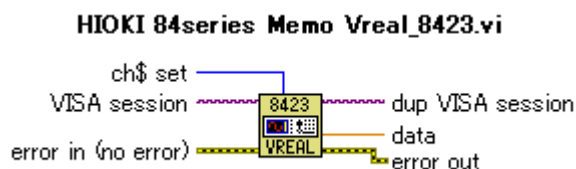
Example :MEMory:VREAL? CH1_1
:MEMory:VREAL 4.7E-2(HEADER ON)

Note When the :MEMory:GETReal command is not executed before
this command, the returned value is not fixed.

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4-3-92. HIOKI 84series Memo Vreal_8423.vi

Outputs real time data (voltage values).



| Name | Data type | Explanation |
|----------|-----------|---|
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| vdata | | The output of real time data
(unit: V, °C) |

* When the [Captures real time data.] command is not executed before this command, the returned value is not fixed.

Reference command (the 8423 command.)

(9) Outputs real time data. (volt,tc,rtd,humid,count,revolve)

Syntax (command) :MEMory:VREAI? unit\$,ch\$
(response) A<NR3>
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A=volt,tc,rtd,humid(8949,8948 unit data)
count,revolve(8996 unit pulse data)
0,1(8996 unit digital in data)
0,1(8997 unit alarm out data)

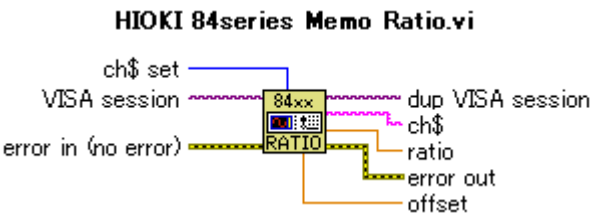
Explanation Returns as a voltage value the value input on the channel designated by ch\$.

Example :MEMory:VREAI? UNIT1,CH1
:MEMory:VREAI 4.7E-2(HEADER ON)

Note When the :MEMory:GETReal command is not executed before this command, the returned value is not fixed.

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4-3-93. HIOKI 84series Memo Ratio.vi
Outputs ratio and offset



| Name | Data type | Explanation |
|----------|-----------|---|
| ch\$ set | | Specifies the channel
Valid range: CH1_1 to CH4_15 |
| ratio | | The output of ratio = A |
| offset | | The output of offset = B |

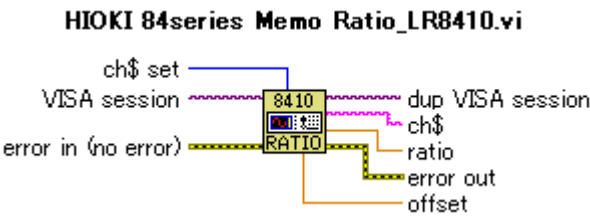
*(Physical value) = A * (Data) + B




for the LR8400,LR8401,LR8402

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4-3-94. HIOKI 84series Memo Ratio_LR8410.vi

Outputs ratio and offset



| Name | Data type | Explanation |
|----------|---|---|
| ch\$ set |  | Specifies the channel
Valid range: CH1_1 to CH7_15 |
| ratio |  | The output of ratio = A |
| offset |  | The output of offset = B |

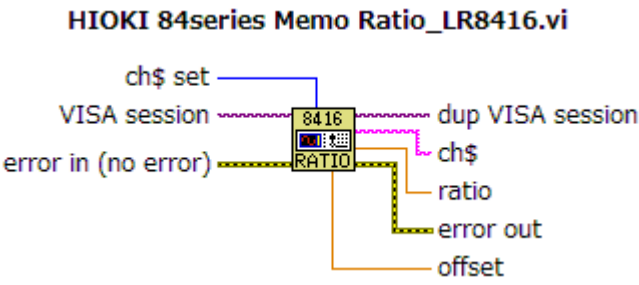
$$*(Physical\ value) = A * (Data) + B$$

for the LR8410

| | | |
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4-3-95. HIOKI 84series Memo Ratio_LR8416.vi

Outputs ratio and offset



| Name | Data type | Explanation |
|----------|-----------|---|
| ch\$ set | | Specifies the channel
Valid range: CH1_1 to CH7_15 |
| ratio | | The output of ratio = A |
| offset | | The output of offset = B |

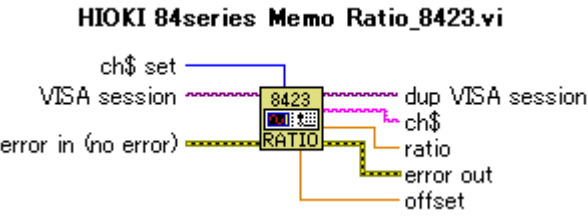
*(Physical value) = A * (Data) + B

for the LR8416

| | | |
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4-3-96. HIOKI 84series Memo Ratio_8423.vi

Outputs ratio and offset



| Name | Data type | Explanation |
|----------|-----------|---|
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| ratio | | The output of ratio = A |
| offset | | The output of offset = B |

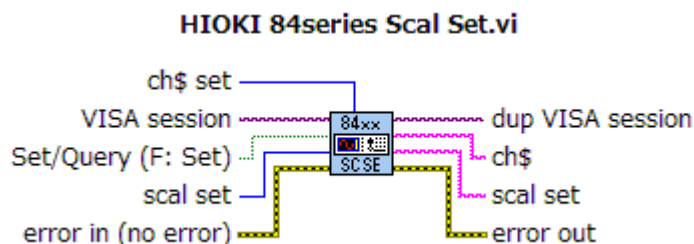
$$*(\text{Physical value}) = A * (\text{Data}) + B$$

for the 8423

| | | |
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4-3-97. HIOKI 84series Scal Set.vi

Sets or queries the Scaling Kind.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 59(=CH4_15) |
| Scal set | | Specifies the Scaling Kind.
0(=OFF),1(=ENG),2(=SCI) |
| ch\$ | | Specified channel |
| Scal | | The result of querying the Scaling Kind. |

Reference command (the LR8400,LR8401,LR8402 command.)

(2) Sets and queries the scaling kind.

Syntax (command) :SCALing:SET ch\$,A\$
(query) :SCALing:SET? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH4_15,PLS1 to PLS8
A\$=OFF,ENG,SCI
(ENG=Dec,SCI=Exp)

Explanation Sets the scaling kind designated by ch\$.
Returns the current scaling kind designated by ch\$ as a character string.

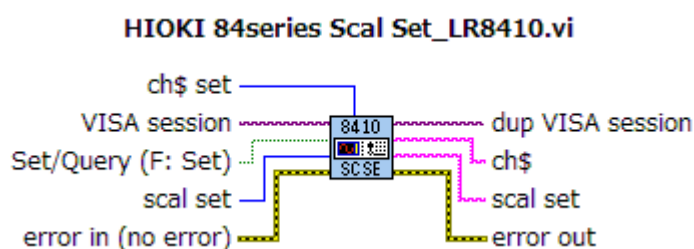
Example :SCALing:SET CH1_1,ENG
Sets the scaling kind for channel 1-1 to ENG(=Dec).

Note CH1_1 to CH4_15 is effective only when LR8501 Universal Unit
or LR8500 Volt/Temp Unit.

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4-3-98. HIOKI 84series Scal Set_LR8410.vi

Sets or queries the Scaling Kind.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| Scal set | | Specifies the Scaling Kind
0(=OFF),1(=ENG),2(=SCI) |
| ch\$ | | Specified channel |
| Scal | | The result of querying the Scaling Kind |

Reference command (the LR8410 command.)

(2) Sets and queries the scaling kind.

Syntax (command) :SCALing:SET ch\$,A\$
(query) :SCALing:SET? ch\$
(response) ch\$,A\$
ch\$=CH1_1 to CH7_15
A\$=OFF,ENG,SCI
(ENG=Dec,SCI=Exp)

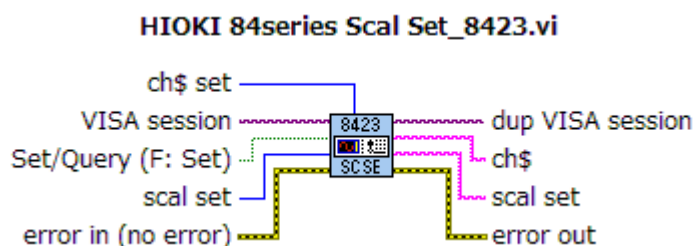
Explanation Sets the scaling kind designated by ch\$.
Returns the current scaling kind designated by ch\$ as a character string.

Example :SCALing:SET CH1_1,ENG
Sets the scaling kind for channel 1-1 to ENG(=Dec).

Note It is effective only when LR8511 Wireless Universal Unit or LR8510 Wireless Volt/Temp Unit's registered channel.

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4-3-99. HIOKI 84series Scal Set_8423.vi
Sets or queries the Scaling Kind.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| Scal set | | Specifies the Scaling Kind
0(=OFF),1(=ENG),2(=SCI) |
| ch\$ | | Specified channel |
| Scal | | The result of querying the Scaling Kind |

Reference command (the 8423 command.)

(2) Sets and queries the scaling kind.

Syntax (command) :SCALing:SET unit\$,ch\$,A\$
(query) :SCALing:SET? unit\$,ch\$
(response) unit\$,ch\$,A\$
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A\$=OFF,SCI,ENG

Explanation Sets the scaling kind designated by unit\$,ch\$.
Returns the current scaling kind designated by unit\$,ch\$ as a character string.

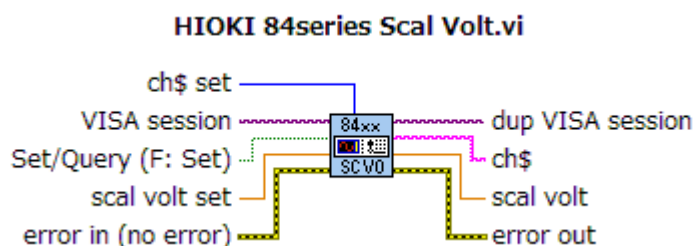
Example :SCALing:SET UNIT1,CH1,ENG
Sets the scaling kind for unit 1,channel 1 to ENG.

Note This command is effective only when 8949 Universal Unit
or 8948 Voltage/Temp Unit
or 8996 Digital/Pulse Unit.

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4-3-100. HIOKI 84series Scal Volt.vi

Sets or queries the scaling conversion value.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 59(=CH4_15) |
| Scal volt set | | Specifies the scaling conversion value |
| ch\$ | | Specified channel |
| Scal volt | | The result of querying the scaling conversion value |

Reference command (the LR8400,LR8401,LR8402 command.)

(3) Sets and queries the scaling conversion value.

Syntax (command) :SCALing:VOLT ch\$,A
(query) :SCALing:VOLT? ch\$
(response) ch\$,A<NR3>
ch\$=CH1_1 to CH4_15,PLS1 to PLS8
A=-9.9999E+9 to +9.9999E+9

Explanation Sets the scaling conversion value for the channel designated by ch\$.

Returns the current scaling conversion value setting for the channel designated by ch\$ as an NR3 numerical value.

Example :SCALing:VOLT CH1_1,+2.0E-3

Sets the scaling conversion value (eu/V) for channel 1-1 to +2. 0E-3.

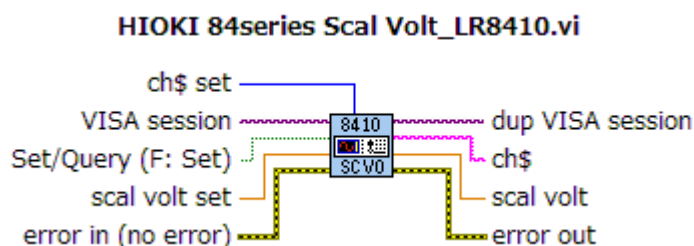
When allowed when the conversion scaling is set to RATIO.

Note CH1_1 to CH4_15 is effective only when LR8501 Universal Unit or LR8500 Volt/Temp Unit.

| | | |
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4-3-101. HIOKI 84series Scal Volt_LR8410.vi

Sets or queries the scaling conversion value.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| Scal volt set | | Specifies the scaling conversion value |
| ch\$ | | Specified channel |
| Scal volt | | The result of querying the scaling conversion value |

Reference command (the LR8410,LR8416 command.)

(3) Sets and queries the scaling conversion value.

Syntax (command) :SCALing:VOLT ch\$,A
(query) :SCALing:VOLT? ch\$
(response) ch\$,A<NR3>
ch\$=CH1_1 to CH7_15
A=-9.9999E+9 to +9.9999E+9

Explanation Sets the scaling conversion value for the channel designated by ch\$.

Returns the current scaling conversion value setting for the channel designated by ch\$ as an NR3 numerical value.

Example :SCALing:VOLT CH1_1,+2.0E-3
Sets the scaling conversion value (eu/V) for channel 1-1 to +2. 0E-3.

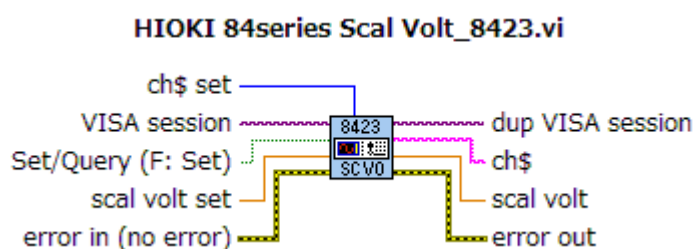
When allowed when the conversion scaling is set to RATIO.

Note It is effective only when LR8511 Wireless Universal Unit or LR8510 Wireless Volt/Temp Unit's registered channel.

| | | |
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4-3-102. HIOKI 84series Scal Volt_8423.vi

Sets or queries the scaling conversion value



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| Scal volt set | | Specifies the scaling conversion value |
| ch\$ | | Specified channel |
| Scal volt | | The result of querying the scaling conversion value |

Reference command (the 8423 command.)

(3) Sets and queries the scaling conversion value.

Syntax (command) :SCALing:VOLT unit\$,ch\$,A
(query) :SCALing:VOLT? unit\$,ch\$
(response) unit\$,ch\$,A<NR3>
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A=-9.9999E+9 to +9.9999E+9

Explanation Sets the scaling conversion value for the channel designated by unit\$,ch\$.
Returns the current scaling conversion value setting for the channel designated by unit\$,ch\$ as an NR3 numerical value.

Example :SCALing:VOLT UNIT1,CH1,+2.0E-3
Sets the scaling conversion value (eu/V) for unit 1,channel 1 to +2. 0E-3.

When allowed when the conversion scaling is set to RATIO.

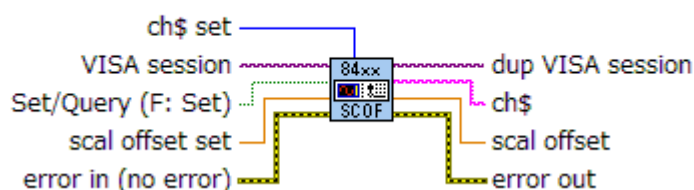
Note This command is effective only when 8949 Universal Unit
or 8948 Voltage/Temp Unit
or 8996 Digital/Pulse Unit.

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4-3-103. HIOKI 84series Scal Offset.vi

Sets or queries the scaling offset.

HIOKI 84series Scal Offset.vi



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 59(=CH4_15) |
| Scal offset set | | Specifies the scaling offset |
| ch\$ | | Specified channel |
| Scal offset | | The result of querying the scaling offset |

Reference command (the LR8400,LR8401,LR8402 command.)

(4) Sets and queries the scaling offset.

Syntax (command) :SCALing:OFFSet ch\$,A
(query) :SCALing:OFFSet? ch\$
(response) ch\$,A<NR3>
ch\$=CH1_1 to CH4_15,PLS1 to PLS8
A=-9.9999E+9 to +9.9999E+9

Explanation Sets the scaling offset for the channel designated by ch\$.
Returns the current scaling offset for the channel designated by ch\$ as an NR3 numerical value.

Example :SCALing:OFFSet CH1_1,+1.0E-3
Sets the scaling offset (eu offset) for channel 1-1 to +1. 0E-3.

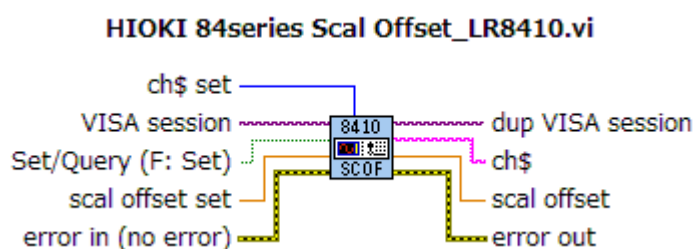
When allowed when the conversion scaling is set to RATIO.

Note CH1_1 to CH4_15 is effective only when LR8501 Universal Unit
or LR8500 Volt/Temp Unit.

| | | |
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4-3-104. HIOKI 84series Scal Offset_LR8410.vi

Sets or queries the scaling offset.



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=CH1_1) to 104(=CH7_15) |
| Scal offset set | | Specifies the scaling offset |
| ch\$ | | Specified channel |
| Scal offset | | The result of querying the scaling offset |

Reference command (the LR8410,LR8416 command.)

(4) Sets and queries the scaling offset.

Syntax (command) :SCALing:OFFSet ch\$,A
(query) :SCALing:OFFSet? ch\$
(response) ch\$,A<NR3>
ch\$=CH1_1 to CH7_15
A=-9.9999E+9 to +9.9999E+9

Explanation Sets the scaling offset for the channel designated by ch\$.
Returns the current scaling offset for the channel designated by ch\$ as an NR3 numerical value.

Example :SCALing:OFFSet CH1_1,+1.0E-3
Sets the scaling offset (eu offset) for channel 1-1 to +1. 0E-3.

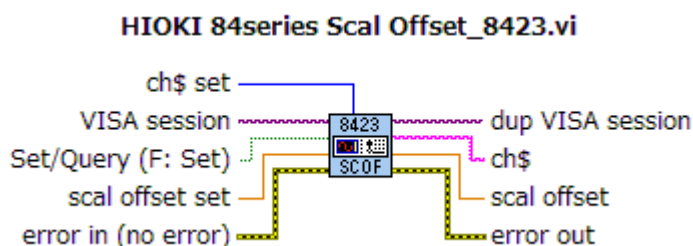
When allowed when the conversion scaling is set to RATIO.

Note It is effective only when LR8511 Wireless Universal Unit
or LR8510 Wireless Volt/Temp Unit's registered channel.

| | | |
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4-3-105. HIOKI 84series Scal Offset_8423.vi

Sets or queries the scaling Offset



| Name | Data type | Explanation |
|------------------|-----------|---|
| Set/Query(F:Set) | | Selects the setting or the querying function
Valid range; False(=set: Default), True(=Query) |
| ch\$ set | | Specifies the channel
Valid range: 0(=UNIT1,CH1) to 119(=UNIT8,CH15) |
| Scal offset set | | Specifies the scaling offset |
| ch\$ | | Specified channel |
| Scal offsett | | The result of querying the scaling offset |

Reference command (the 8423 command.)

(4) Sets and queries the scaling offset.

Syntax (command) :SCALing:OFFSet unit\$,ch\$,A
(query) :SCALing:OFFSet? unit\$,ch\$
(response) unit\$,ch\$,A<NR3>
unit\$=UNIT1 to UNIT8
ch\$=CH1 to CH15
A=-9.9999E+9 to +9.9999E+9

Explanation Sets the scaling offset for the channel designated by unit\$,ch\$.
Returns the current scaling offset for the channel designated by unit\$,ch\$ as an NR3 numerical value.

Example :SCALing:OFFSet UNIT1,CH1,+1.0E-3
Sets the scaling offset (eu offset) for unit 1,channel 1 to +1. 0E-3.

When allowed when the conversion scaling is set to RATIO.

Note This command is effective only when 8949 Universal Unit
or 8948 Voltage/Temp Unit
or 8996 Digital/Pulse Unit.

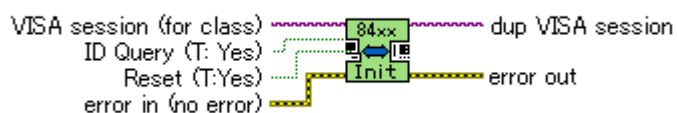
| | | |
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4-4. The VI which is not in the program library.

4-4-1. HIOKI 84Series Initialize.vi

Opens the VISA session, Initializes the interface or the MEMORY HiLOGGER.

HIOKI 84series Initialize.vi




| Name | Data type | Explanation |
|---|---|---|
| dup VISA session
error in
error out | | The inputs and output are the same as the ones of the VI which is in the program library. |
| Instrument Descriptor (GPIP... |  | Specifies the resource name of unit.


The form:

TCP/IP

TCPIP[number]::ip address::port number::SOCKET

USB

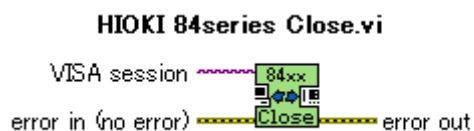
COM[number] |
| ID Query |  | Identifies the ID of unit.

Valid range: False, True(Default). |
| Reset |  | Resets the unit.

Valid range: False, True(Default). |

| | | |
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4-4-2. HIOKI 84series Close.vi
Closes the VISA session.




| Name | Explanation |
|---|---|
| dup VISA session
error in
error out | The inputs and output are the same as the ones of the VI which is in the program library. |

| | | |
|--------------|--|--------------------|
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4-4-3. Wait.vi

Sets the waiting time.



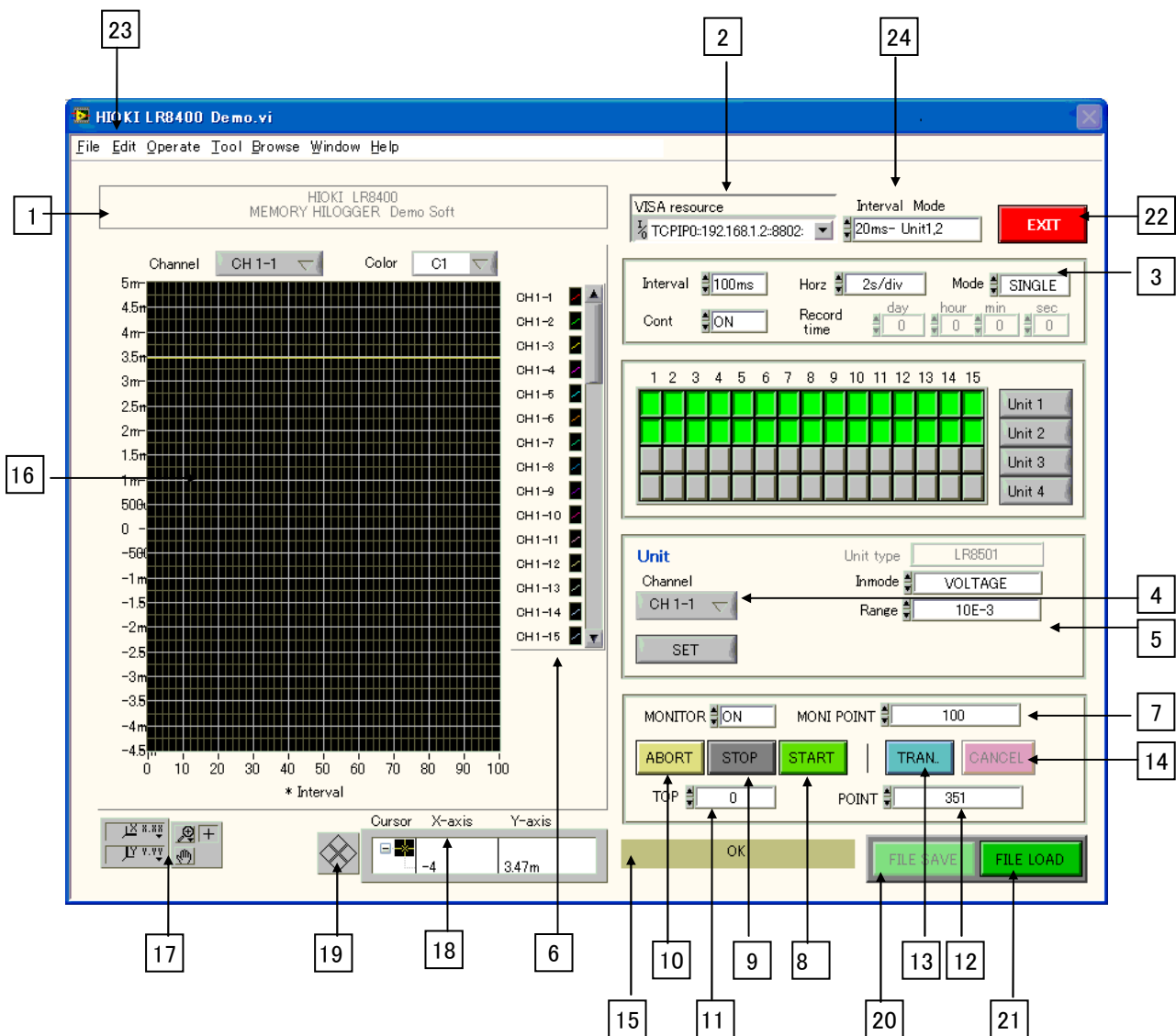
| Name | Data type | Explanation |
|-----------|---|---------------------------------------|
| times(ms) |  | Specifies the waiting time (unit: ms) |

| | | |
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4-4-4 HIOKI 84series DEMO_LR8400.vi

It is a demo program for LR8400,LR8401,LR8402 MEMORY HiLOGGER

HIOKI LR8400 Demo.vi



| | | |
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| No | Function |
|----|---|
| 1 | It is a title. |
| 2 | Sets the TCPIP(LAN) or USB(COM) |
| 3 | (1) Shows and sets the Time Interval.
(2) Shows and sets recording Time. |
| 4 | Sets the Channel Number. |
| 5 | Sets and queries items about channel.
(1) RangeCH: Specified the channel.
(2) Kind of unit: Shows the kind of unit.
(3) Range: Shows and Specifies voltage axis range.
(Unit: V,°C, Refer to LR8400 MEMORY HiLOGGER manual to get details.)
(It is necessary to press the SET button if the items have been specified.) |
| 6 | Sets the color of wave, and so on.
Note: It is a standard function of LabVIEW |
| 7 | Sets the Graph Plot at START.
MONITOR:OFF (Do not Graph Plot at START.)
MONITOR:ON (Do Graph Plot of the newest data set up by MONI POINT at START.) |
| 8 | Performs starting (Same as the START key of the unit). |
| 9 | Performs stopping (Same as the STOP key of the unit). |
| 10 | Aborts processing |
| 11 | Sets start point for transmitting |
| 12 | Set the transmitting points of data |
| 13 | Transmits data |
| 14 | Cancels transmission. |
| 15 | Shows the performing condition of this program. |
| 16 | Shows Waveform Graph. |
| 17 | Changes the graph (enlargement, and so on)
Note: It is a standard function of LabVIEW |
| 18 | Sets the kind of cursor, and so on.
Note: It is a standard function of LabVIEW. |
| 19 | Moves the cursor.
Note: It is a standard function of LabVIEW. |
| 20 | Saves data in a file.
Note: It is invalid when there is no data in the graph. |
| 21 | Reads saved data from a file. |
| 22 | Exits this program |
| 23 | It is a menu
Note: It is a standard function of LabVIEW |
| 24 | Time Interval Mode(Use Unit Mode)
10ms- Unit1:
Only in the unit 1, the measurement from 10ms is possible.
20ms- Unit1,2:
Only in the unit 1,2, the measurement from 20ms is possible.
50ms- Unit1,2,3,4:
In the unit 1,2,3,4 the measurement from 50ms is possible. |

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The process of transmitting data from unit.

1. Opens the HIOKI 84series DEMO_LR8400.vi.
2. Sets the TCP/IP(LAN) or USB(COM) address.
3. Runs the HIOKI 84series DEMO_LR8400.vi.
4. Sets necessary items for LR8400 MEMORY HiLOGGER.
5. Sets transmitting channel.
6. Presses the START button and Presses the STOP button, then presses the TRAN. Button.
7. In Demo Program, scaling does not start a measurement voltage value. For acquiring the measurement voltage value which required scaling, it is :MEMory:ADATa? Please use :MEMory:VDATa? that there is nothing then. In this case, a data transfer rate will become slow 3 times.

Note:

The maximum transmitting points of data is set to 100001.

It is necessary to set the header to OFF before running HIOKI 84series DEMO_LR8400.vi

All the button are invalid except for FILE LOOD button/FILE SAVE button/EXIT button, when there is a error in communication.

All the button are invalid except for CANNEL button, when the No15 is displaying "Transmitting".

All the button are invalid except for ABORT button/STOP button/EXIT button/TRANS button, when the No15 is displaying "Storing".

The FILE SAVE button is invalid when there is no data in the graph.

It can be aborted if the Ctrl key and the . key are pressed at the same time.

It is necessary to close LabVIEW then perform 1-6 if the HIOKI 84series DEMO_LR8400.vi is aborted or the VISA of LabVIEW is in error, before running the HIOKI 84series DEMO_LR8400.vi again.

The top data number which remains in the internal memory, and the data number of an end are displayed No.15 like "Storing 0-1000" the case where data is acquired by "TRANS" during measurement.

When a top data number is not 0, it is in the state which has overwritten data new to the oldest data of an internal memory. in this case -- the data number specified by TOP -- first number + the number of data for about ten seconds. if it does not do so, it will be displayed, as the acquired data may be returned by the data of zero of 16-bit A/D and the waveform displayed shook off to the direction under a screen.

(Although the number of data for 10 seconds is added by this DEMO soft in consideration of the above, please increase, when insufficient.)

Since the ABORT key and the STOP key are hard coming to be effective when MONITOR is turned ON, in that case, please turn OFF MONITOR and use it.

LR8400 can be measured in the units 1, 2, 3, and 4 from 50 ms, which can measure only the units 1 and 2 in 20ms, which can measure only the unit 1 in 10ms.

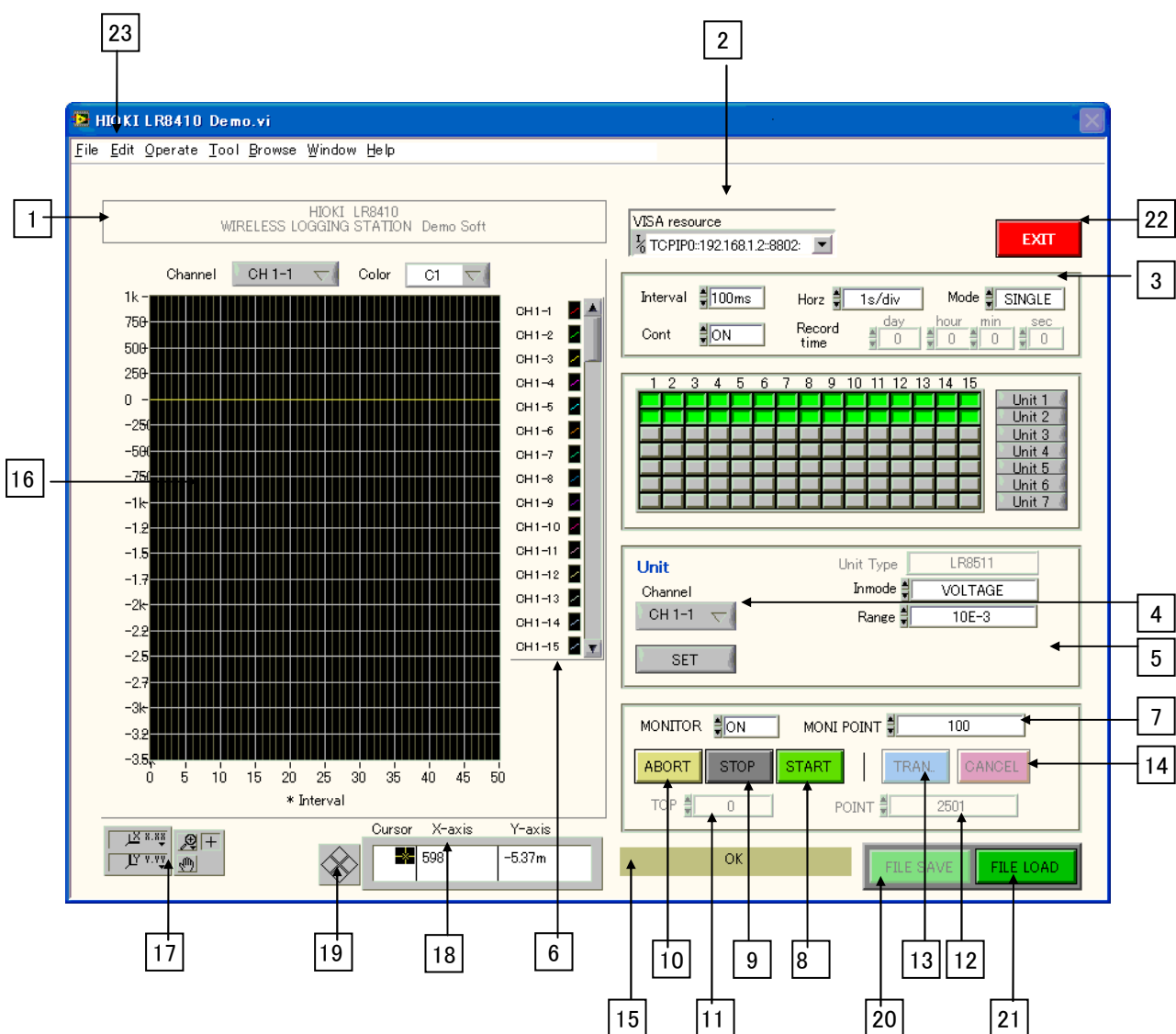
Please perform HIOKI 84series DEMO_LR8400.vi after setting up such record interval modes (use unit mode) by Interval Mode.

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4-4-5 HIOKI 84series DEMO_LR8410.vi

It is a demo program for LR8410 WIRELESS LOGGING STATION

HIOKI LR8410 Demo.vi

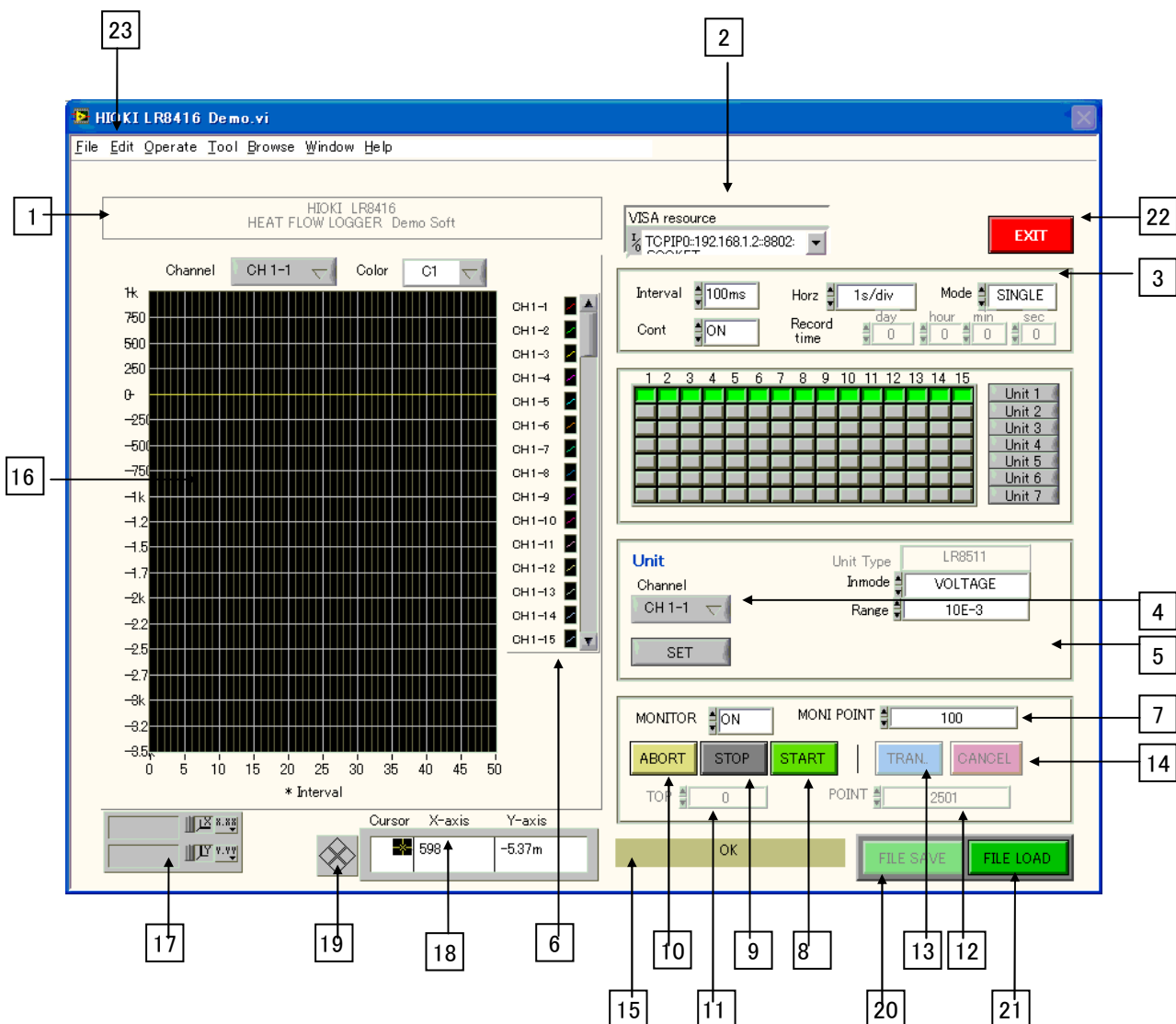


| | | |
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4-4-6 HIOKI 84series DEMO_LR8416.vi

It is a demo program for LR8416 HEAT FLOW LOGGER

HIOKI LR8416 Demo.vi



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4-4-7 HIOKI 84series DEMO_8423.vi

It is a demo program for 8423 MEMORY HiLOGGER

HIOKI 8423 Demo.vi

