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1. Summary

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

These drives can control change the setting of 8826.8835,8835-01,8841,8842 MEMORY HiCORDER through GPIB and TCP/IP(LAN).
These drives can control change the setting of 8847,MR8847,MR8847A,MR8827 MEMORY HiCORDER through TCP/IP(LAN) and USB[Communication Device Class(CDC)]. (USB communication uses Driver in attachment CD.)
These drives can control change the setting of 8855 MEMORY HiCORDER through GPIB and TCP/IP(LAN).
These drives can control change the setting of MR8740,MR8741 MEMORY HiCORDER 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 HiCORDER 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

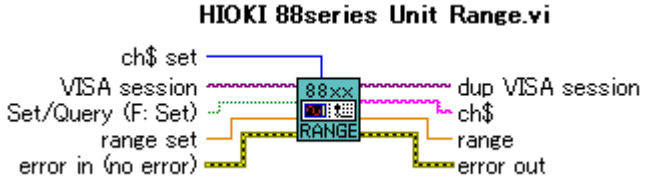
input

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: HIOKI8826 Unit Range.vi.



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 88Series IDN.vi	Queries device ID. *IDN?
2	HIOKI 88Series OPT.vi	Queries device option provision. *OPT?
3	HIOKI 88Series Reset.vi	Initializes the unit. *RST
4	HIOKI 88Series TST.vi	Queries the result of ROM/RAM check. *TST?
5	HIOKI 88Series OPC.vi	Replies with ASCII[1] after execution is completed. *OPC *OPC?
6	HIOKI 88Series WAI.vi	After the execution of the command is completed, subsequently performs the following command. *WAI
7	HIOKI 88Series CLS.vi	Clears the status bytes and associated queues(except for the output queue). *CLS
8	HIOKI 88Series ESE.v	Writes or reads the standard event status enable register(SESER). (GP-IB only) *ESE *ESE?
9	HIOKI 88Series ESR.vi	Reads out and clears the contents of the standard even status register(SESR) *ESR?
10	HIOKI 88Series SRE.vi	Writes or reads the service request enable register (SRER). (GP-IB only) *SRE *SRE?

	Name	Function / Communication command
11	HIOKI 88Series STB.vi	Reads the status byte and MSS bit, without performing serial polling *STB
12	HIOKI 88Series ESE0.vi	Writes or reads the event status enable register 0 (ESER0). (GP-IB only) :ESE0 :ESE0?
13	HIOKI 88Series ESR0.vi	Reads event status register 0 (ESR0). :ESR0?
14	HIOKI 88Series Start.vi	Performs starting. (Same as the START key of the unit) :STARt
15	HIOKI 88Series Stop.vi	Performs stopping. (Same as the STOP key of the unit) :STOP
16	HIOKI 88Series Abort.vi	Aborts processing. :ABORT
17	HIOKI 88Series Print.vi	Performs printing. (Same as the PRINT key of the unit) :PRINt
18	HIOKI 88Series Hcopy.vi	Screen copy function. (Same as the COPY key of the unit) :HCOPy
19	HIOKI 88Series Feed.vi	Feeds printer paper. :FEED
20	HIOKI 88Series Function_8826_35_41_42.vi	Changes or queries the function selection. (for 8835(-01),8826.8841,8842) :FUNCtion
21	HIOKI 88Series Function_8847.vi	Changes or queries the function selection. (for 8847,MR8847,MR8847A) :FUNCtion
22	HIOKI 88Series Function_8855.vi	Changes or queries the function selection. (for 8855) :FUNCtion
23	HIOKI 88Series Function_MR8740_41.vi	Changes or queries the function selection. (for MR8740,MR8741) :FUNCtion
24	HIOKI 88Series Function_8827.vi	Changes or queries the function selection. (for MR8827) :FUNCtion

	Name	Function / Communication command
25	HIOKI 88Series Conf Tdiv.vi	Sets or queries the time axis range. :CONFigure:TDIV :CONFigure:TDIV?
26	HIOKI 88Series Conf Shot.vi	Sets or queries the recording length. :CONFigure:SHOT :CONFigure:SHOT?
27	HIOKI 88Series Trig Mode.vi	Sets or queries trigger mode. :TRIGger:MODE :TRIGger:MODE?
28	HIOKI 88Series Trig Pretrigger.vi	Sets or queries pre-trigger. :TRIGger:PRETrig :TRIGger:PRETrig?
29	HIOKI 88Series Trig Source.vi	Sets or queries the trigger logical operator (AND/OR) :TRIGger:SOURce :TRIGger:SOURce?
30	HIOKI 88Series Trig Kind_8826_35_41_42.vi	Sets or queries the kind of trigger. (for 8835(-01),8826.8841,8842) :TRIGger:KIND :TRIGger:KIND?
31	HIOKI 88Series Trig Kind_8847.vi	Sets or queries the kind of trigger. (for 8847,MR8847,MR8847A) :TRIGger:KIND :TRIGger:KIND?
32	HIOKI 88Series Trig Kind_8855.vi	Sets or queries the kind of trigger. (for 8855) :TRIGger:KIND :TRIGger:KIND?
33	HIOKI 88Series Trig Kind_MR8740_41.vi	Sets or queries the kind of trigger. (for MR8740,MR8741) :TRIGger:KIND :TRIGger:KIND?
34	HIOKI 88Series Trig Kind_8827.vi	Sets or queries the kind of trigger. (for MR8827) :TRIGger:KIND :TRIGger:KIND?
35	HIOKI 88Series Trig Level.vi	Set or queries the trigger level of the level trigger :TRIGger:LEVEL :TRIGger:LEVEL?

	Name	Function / Communication command
36	HIOKI 88Series Trig Slope_8826_35_41_42.vi	Sets or queries the trigger direction (slope). (for 8835(-01),8826.8841,8842) :TRIGger:SLOPe :TRIGger:SLOPe?
37	HIOKI 88Series Trig Slope_8847.vi	Sets or queries the trigger direction (slope). (for 8847,MR8847,MR8847A) :TRIGger:SLOPe :TRIGger:SLOPe?
38	HIOKI 88Series Trig Slope_8855.vi	Sets or queries the trigger direction (slope). (for 8855) :TRIGger:SLOPe :TRIGger:SLOPe?
39	HIOKI 88Series Trig Slope_MR8740_41.vi	Sets or queries the trigger direction (slope). (for MR8740,MR8741) :TRIGger:SLOPe :TRIGger:SLOPe?
40	HIOKI 88Series Trig Slope_8827.vi	Sets or queries the trigger direction (slope). (for MR8827) :TRIGger:SLOPe :TRIGger:SLOPe?
41	HIOKI 88Series Trig Detecttime.vi	Sets or queries the time point for trigger detection. :TRIGger:DETECTTime :TRIGger:DETECTTime?
42	HIOKI 88Series Trig Detectdate.vi	Sets or queries the date for trigger detection. :TRIGger:DETECTDate :TRIGger:DETECTDate?
43	HIOKI 88Series Unit Range.vi	Sets or queries the measurement range of an input channel. (except for F/V unit) :UNIT:RANGe :UNIT:RANGe?
44	HIOKI 88Series Unit Coupling.vi	Sets or queries input coupling for an input channel. :UNIT:COUPling :UNIT:COUPling?
45	HIOKI 88Series Unit Position.vi	Sets or queries input channel origin position. :UNIT:POSIting :UNIT:POSIting?

	Name	Function / Communication command
46	HIOKI 88Series Unit Sensor_8826_35_41_42.vi	Sets or queries the type of the voltage/temperature unit sensor. (for 8835(-01),8826.8841,8842) :UNIT:SENSor :UNIT:SENSor?
47	HIOKI 88Series Unit Sensor_8847.vi	Sets or queries the type of the voltage/temperature unit sensor. (for 8847,MR8847,MR8847A) :UNIT:SENSor :UNIT:SENSor?
48	HIOKI 88Series Unit Sensor_8855.vi	Sets or queries the type of the voltage/temperature unit sensor. (for 8855) :UNIT:SENSor :UNIT:SENSor?
49	HIOKI 88Series Unit Sensor_MR8740_41.vi	Sets or queries the type of the voltage/temperature unit sensor. (for MR8740,MR8741) :UNIT:SENSor :UNIT:SENSor?
50	HIOKI 88Series Unit Sensor_8827.vi	Sets or queries the type of the voltage/temperature unit sensor. (for MR8827) :UNIT:SENSor :UNIT:SENSor?
51	HIOKI 88Series Unit Fvmode_8826_35_41_42.vi	Sets or queries the measurement mode of the F/V unit. (for 8835(-01),8826.8841,8842) :UNIT:FVMOde :UNIT:FVMOde?
52	HIOKI 88Series Unit FRange_8826_35_41_42.vi	Sets or queries the frequency range of the F/V unit. (for 8835(-01),8826.8841,8842) :UNIT:FRANge :UNIT:FRANge?
53	HIOKI 88Series Unit Cmode.vi	Set or queries the measurement mode of the charge unit. (for 8835(-01),8826.8841,8842) :UNIT:CMODe :UNIT:CMODe?

	Name	Function / Communication command
54	HIOKI 88Series Disp Draw_8826_35_41_42.vi	Sets or queries waveform display color. (for 8835(-01),8826.8841,8842) :DISPlay:DRAWing :DISPlay:DRAWing?
55	HIOKI 88Series Disp Draw_8847.vi	Sets or queries waveform display color. (for 8847,MR8847,MR8847A) :DISPlay:DRAWing :DISPlay:DRAWing?
56	HIOKI 88Series Disp Draw_8855.vi	Sets or queries waveform display color. (for 8855) :DISPlay:DRAWing :DISPlay:DRAWing?
57	HIOKI 88Series Disp Draw_MR8740_41.vi	Sets or queries waveform display color. (for MR8740,MR8741) :DISPlay:DRAWing :DISPlay:DRAWing?
58	HIOKI 88Series Disp Draw_8827.vi	Sets or queries waveform display color. (for MR8827) :DISPlay:DRAWing :DISPlay:DRAWing?
59	HIOKI 88series Memo Point.vi	Sets or queries the point in memory for input/output. :MEMory:POINt :MEMory:POINt?
60	HIOKI 88series Memo Maxpoint.vi	Queries the number of data samples stored. :MEMory:MAXPoint?
61	HIOKI 88series Memo Prepare.vi	Prepares the memory. :MEMory:PREPare
62	HIOKI 88series Memo Adata.vi	Inputs data to memory, or outputs stored data. :MEMory:ADATa :MEMory:ADATa?
63	HIOKI 88series Memo Vdata.vi	Inputs voltage data to memory, or outputs voltage data from memory. :MEMory:VDATa :MEMory:VDATa?
64	HIOKI 88series Memo Getreal.vi	Captures real time data. :MEMory:GETReal

	Name	Function / Communication command
65	HIOKI 88series Memo Areal.vi	Outputs real time data (in ASCII) (for 8835(-01),8826.8841,8842,8855) :MEMory:AREAl?
66	HIOKI 88series Memo Vreal.vi	Outputs real time data (voltage values). :MEMory:VREAl?
67	HIOKI 88series Memo Bdata.vi	Binary transfer of stored data. :MEMory:BDATa?
68	HIOKI 88series Memo Breal.vi	Outputs real time data (binary). (for 8835(-01),8826.8841,8842,8855) :MEMory:BREAl?
69	HIOKI 88series Memo Ratio_8847.vi	Query the ratio and offset coefficients for converting stored data into physical values (for 8847,MR8847,MR8847A) :MEMory:RATIo?
70	HIOKI 88series Memo Ratio_MR8740_41.vi	Query the ratio and offset coefficients for converting stored data into physical values (for MR8740,MR8741) :MEMory:RATIo?
71	HIOKI 88series Memo Ratio_8827.vi	Query the ratio and offset coefficients for converting stored data into physical values (for MR8827) :MEMory:RATIo?
72	HIOKI 88series Memo DVPoint_MR8740_41.vi	Sets or queries the point in memory for input/output.(for MR8990 DVM unit of MR8740 and MR8741) :MEMory:DVPOINt :MEMory:DVPOINt?
73	HIOKI 88series Memo DVPoint_MR8827.vi	Sets or queries the point in memory for input/output.(for MR8990 DVM unit of MR8827) :MEMory:DVPOINt :MEMory:DVPOINt?
74	HIOKI 88series Memo DVMaxpoint_MR8740_41.vi	Queries the number of data samples stored. .(for MR8990 DVM unit of MR8740 and MR8741) :MEMory:DVMAXPoint?
75	HIOKI 88series Memo DVMaxpoint_MR8827.vi	Queries the number of data samples stored. .(for MR8990 DVM unit of MR8827) :MEMory:DVMAXPoint?

	Name	Function / Communication command
76	HIOKI 88series Memo DVAdata_MR8740_41.vi	Inputs data to memory, or outputs stored data. .(for MR8990 DVM unit of MR8740 and MR8741) :MEMory:DVADATa :MEMory:DVADATa?
77	HIOKI 88series Memo DVAdata_MR8827.vi	Inputs data to memory, or outputs stored data. .(for MR8990 DVM unit of MR8827) :MEMory:DVADATa :MEMory:DVADATa?
78	HIOKI 88series Memo DVVdata_MR8740_41.vi	Inputs voltage data to memory, or outputs voltage data from memory. .(for MR8990 DVM unit of MR8740 and MR8741) :MEMory:DVVDATa :MEMory:DVVDATa?
79	HIOKI 88series Memo DVVdata_MR8827.vi	Inputs voltage data to memory, or outputs voltage data from memory. .(for MR8990 DVM unit of MR8827) :MEMory:DVVDATa :MEMory:DVVDATa?
80	HIOKI 88series Memo DVVreal_MR8740_41.vi	Outputs real time data (voltage values). .(for MR8990 DVM unit of MR8740 and MR8741) :MEMory:DVVREAl?
81	HIOKI 88series Memo DVVreal_MR8827.vi	Outputs real time data (voltage values). .(for MR8990 DVM unit of MR8827) :MEMory:DVVREAl?

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

	Name	Function
1	HIOKI 88series Initialize.vi	Opens the VISA session, Initializes the interface or the MEMORY HiCORDER.
2	HIOKI 88series Close.vi	Closes the VISA session.
3	Wait.vi	Sets the waiting time
4	HIOKI 88series DEMO_8826_35_41_42.vi	It is a demo program for 8835(-01),8826.8841,8842 MEMORY HiCORDER
5	HIOKI 88series DEMO_8847.vi	It is a demo program for 8847,MR8847,MR8847A MEMORY HiCORDER
6	HIOKI 88series DEMO_8855.vi	It is a demo program for 8855 MEMORY HiCORDER
7	HIOKI 88series DEMO_MR8740_41.vi	It is a demo program for MR8740,MR8741 MEMORY HiCORDER
8	HIOKI 88series DEMO_MR8827.vi	It is a demo program for MR8827 MEMORY HiCORDER

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).

4-3. Details of VI

4-3-1. HIOKI 88Series IDN.vi

Queries device ID.

Name	Data type	Explanation
Instrument ID	abc	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

4-3-2. HIOKI 88Series OPT.vi

Queries device option provision.

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

* 8835(-01),8826.8841,8842 (return unit kind for each channel)
0: NOT PRESENT
1: 8936 ANALOG UNIT
2: 8937 VOLTAGE/TEMPRETURE UNIT
3: 8939 STRAIN UNIT
4: 8938 FFT UNIT
5: 8940 F/V UNIT
6: 8947 CHARGE UNIT
7: 8946 4-CHANNEL UNIT

* 8847,MR8847,MR8847A,MR8740,MR8741,MR8827 (return unit kind for each unit)
0: NOT PRESENT
1: 8966 ANALOG UNIT
2: 8971 CURRENT UNIT
3: (RESERVE)
4: 8967 TEMP UNIT
5: 8968 HIGH RESOLUTION UNIT
6: 8969 STRAIN UNIT
7: 8970 FREQ UNIT
8: 8972 DC/RMS UNIT
9: 8973 LOGIC UNIT
10: (RESERVE)
11: (RESERVE)
12: MR8990 DVM UNIT (only MR8740,MR8741,MR8827)

* 8855 (return unit kind for each channel)
0: NOT PRESENT
1: 8950 ANALOG UNIT
2: 8952 DC/RMS UNIT
3: 8955 F/V UNIT
4: 8954 VOLTAGE/TAMP UNIT
5: 8951 VOLTAGE/CURRENT UNIT
6: 8953 HIGH RESOLUTION UNIT

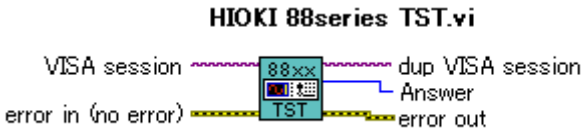
4-3-3. HIOKI 88Series Reset.vi

Initializes the unit.

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

4-3-4. HIOKI 88Series TST.vi

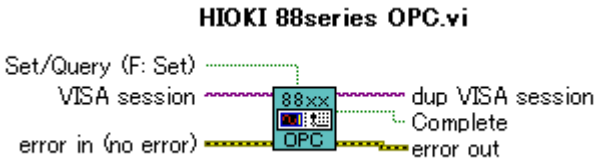
Queries the result of ROM/RAM check.



Name	Data type	Explanation
Answer	I32	The result of ROM/RAM check. Output: 0: normal 1: failure

4-3-5. HIOKI 88Series OPC.vi

Replies with ASCII[1] after execution is completed.



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function. Valid range; False(=set: Default), True(=Query)
Complete	TF	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)

4-3-6. HIOKI 88Series 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

4-3-7. HIOKI 88Series 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

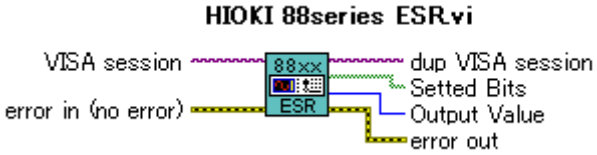
4-3-8. HIOKI 88Series ESE.vi

Writes or reads the standard event status enable register(SESER).
(GP-IB only)

Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function. Valid range; False(=set: Default), True(=Query)
Bits Set	[TF]	The array of bit for setting Valid range: False(=0), True(=1)
Setted Bits	[TF]	The result(bit array) of querying the SESER Output range: False(=0) True(=1)
Output Value	I32	The result(value) of querying the SESER Output range: 0 – 255

4-3-9. HIOKI 88Series ESR.vi

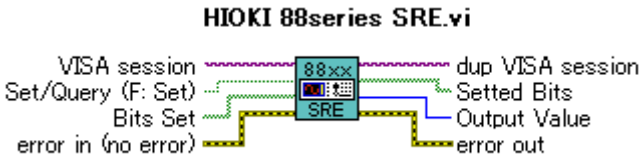
Reads out and clears the contents of the standard even status register(SESR)



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

4-3-10. HIOKI 88Series SRE.vi

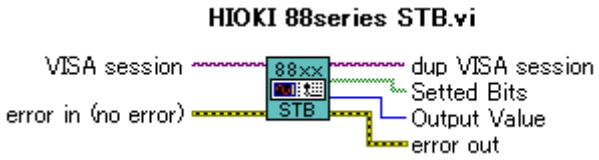
Writes or reads the service request enable register (SRER). (GP-IB only)



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function. Valid range; False(=set: Default), True(=Query)
Bits Set	[TF]	The array of bit for setting Valid range: False(=0), True(=1)
Setted Bits	[TF]	The result(bit array) of querying the SRER Output range: False(=0) True(=1)
Output Value	I32	The result(value) of querying the SRER Output range: 0 – 255

4-3-11. HIOKI 88Series 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

4-3-12. HIOKI 88Series ESE0.vi

Writes or reads the event status enable register 0 (ESER0). (GP-IB only)

Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function. Valid range; False(=set: Default), True(=Query)
Bits Set	[TF]	The array of bit for setting Valid range: False(=0), True(=1)
Setted Bits	[TF]	The result(bit array) of querying the ESER0 Output range: False(=0) True(=1)
Output Value	I32	The result(value) of querying the ESER0 Output range: 0 – 255

4-3-13. HIOKI 88Series ESR0.vi

Reads event status register 0 (ESR0).

Name	Data type	Explanation
Setted Bits	[TF]	The result(bit array) of querying the ESR0 Output range: False(=0) True(=1)
Output Value	I32	The result(value) of querying the ESR0 Output range: 0 – 255

4-3-14. HIOKI 88Series Start.vi

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

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

4-3-15. HIOKI 88Series 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

4-3-16. HIOKI 88Series Abort.vi

Aborts processing.

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

4-3-17. HIOKI 88Series Print.vi

Performs printing. (Same as the PRINT key of the unit)

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

(for 8835(-01),8826.8841,8842,8847,8855,MR8847,MR8847A,MR8827)

4-3-18. HIOKI 88Series Hcopy.vi

Screen copy function. (Same as the COPY key of the unit)

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

(for 8835(-01),8826.8841,8842,8847,8855,MR8847,MR8847A,MR8827)

4-3-19. HIOKI 88Series Feed.vi

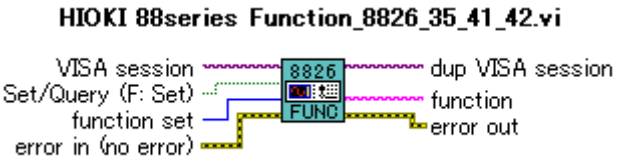
Feeds printer paper.

Name	Data type	Explanation
Feed Length	U8	Sets the length of feeding paper. Valid range: 1 – 255 (unit: mm)

(for 8835(-01),8826.8841,8842,8847,8855,MR8847,MR8847A,MR8827)

4-3-20. HIOKI 88Series Function_8826_35_41_42.vi

Changes or queries the function selection.

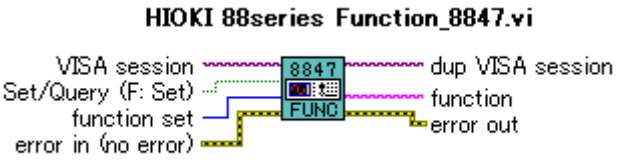


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function. Valid range; False(=set: Default), True(=Query)
function set		Selects the function to change Valid range: 0 (=MEM: Default), 1 (=REC), 2(=RMS), 3 (=R_M), 4 (=FFT)
function	abc	The result of querying the function selection Output: MEM: memory recorder function REC: recorder function RMS: RMS recorder function R_M: recorder and memory function FFT: FFT function

(for 8835(-01),8826.8841,8842)

4-3-21. HIOKI 88Series Function_8847.vi

Changes or queries the function selection.

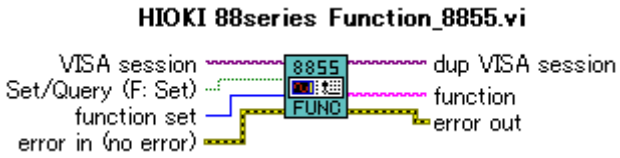


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function. Valid range; False(=set: Default), True(=Query)
function set		Selects the function to change Valid range: 0 (=MEM: Default), 1 (=REC), 2(=XYC), 3 (=FFT)
function	abc	The result of querying the function selection Output: MEM: memory recorder function REC: recorder function XYC: XYC recorder function FFT: FFT function

(for 8847,MR8847,MR8847A)

4-3-22. HIOKI 88Series Function_8855.vi

Changes or queries the function selection.

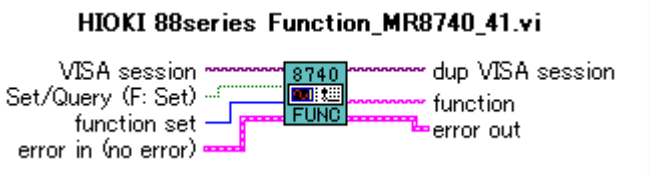


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function. Valid range; False(=set: Default), True(=Query)
function set		Selects the function to change Valid range: 0 (=MEM: Default), 1 (=REC), 2(=POW), 3 (=R_M), 4 (=FFT)
function	abc	The result of querying the function selection Output: MEM: memory recorder function REC: recorder function POW: POWER recorder function R_M: recorder and memory function FFT: FFT function

(for 8855)

4-3-23. HIOKI 88Series Function_MR8740_41.vi

Changes or queries the function selection.

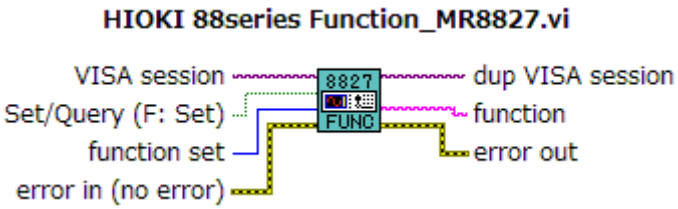


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function. Valid range; False(=set: Default), True(=Query)
function set		Selects the function to change Valid range: 0 (=MEM: Default), 1 (=FFT)
function	abc	The result of querying the function selection Output: MEM: memory recorder function FFT: FFT function

(for MR8740,MR8741)

4-3-24. HIOKI 88Series Function_MR8827.vi

Changes or queries the function selection.

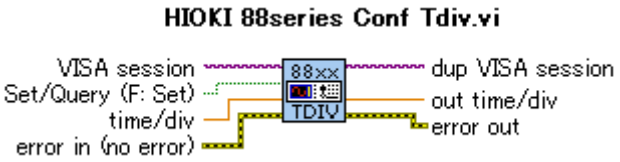


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function. Valid range; False(=set: Default), True(=Query)
function set		Selects the function to change Valid range: 0 (=MEM: Default), 1 (=REC), 2(=XYC), 3 (=FFT)
function	abc	The result of querying the function selection Output: MEM: memory recorder function REC: recorder function XYC: XYC recorder function FFT: FFT function

(for MR8827)

4-3-25. HIOKI 88Series Conf Tdiv.vi

Sets or queries the time axis range.

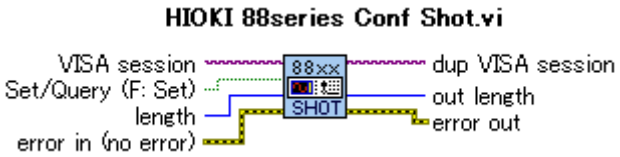


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function. Valid range; False(=set: Default), True(=Query)
time/div	DBL	Sets the numerical value of the axis range (unit: s) *
out time/div	DBL	The result of querying the time axis range (unit: s)

* 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.

4-3-26. HIOKI 88Series Conf Shot.vi

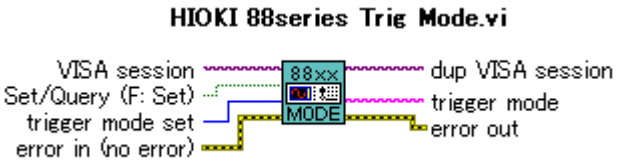
Sets or queries the recording length.



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function. Valid range; False(=set: Default), True(=Query)
length	U32	Sets the numerical value of the recording length (unit: DIV)
out length	U32	The result of querying the numerical value of the recording length (unit: DIV)

4-3-27. HIOKI 88Series Trig Mode.vi

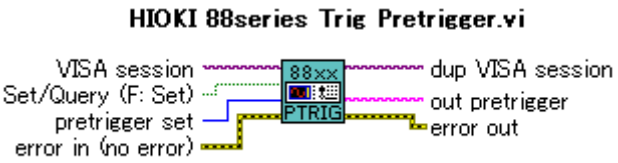
Sets or queries trigger mode.



Name	Data type	Explanation
Set/Query(F:Set)	TF	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), 2(=AUTO)
trigger mode	abc	The result of querying the trigger mode

4-3-28. HIOKI 88Series Trig Pretrigger.vi

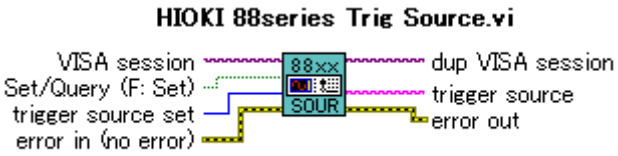
Sets or queries pre-trigger.



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
pretrigger set		Specifies the pre-trigger value Valid range: 0 (=0: Default), 1 (=2), 2 (=5), 3(=10), 4 (=20), 5 (=30), 6 (=40), 7 (=50) 8 (=60), 9 (=70), 10 (=80), 11 (=90), 12 (=95), 13(=100), 14(=-95) (unit: %)
out pretrigger	abc	The result of querying the pre-trigger (unit : %)

4-3-29. HIOKI 88Series Trig Source.vi

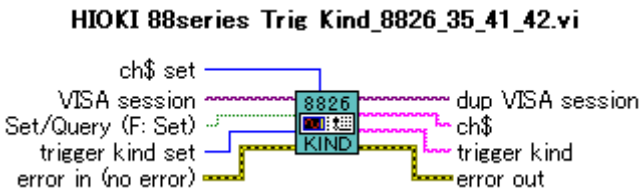
Sets or queries the trigger logical operator (AND/OR)



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
trigger source set		Specifies the trigger logical operator (AND/OR) Valid range: 0 (=OR : Default), 1 (=AND)
trigger source	abc	The result of querying the trigger logical operator

4-3-30. HIOKI 88Series Trig Kind_8826_35_41_42.vi

Sets or queries the kind of trigger.

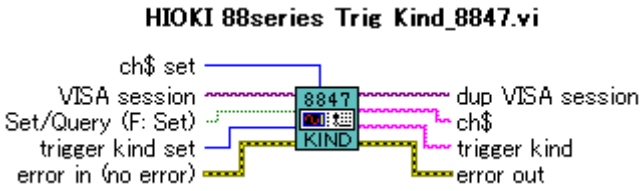


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
trigger kind set		Specifies the kind of trigger Valid range: 0 (=OFF: Default), 1 (=LEVEL), 2 (=IN), 3 (=OUT), 4 (=DROP), 5 (=PERIOD) 6 (=RMS)
ch$	abc	Specified channel
trigger kind	abc	The result of querying the kind of trigger

(for 8835(-01),8826.8841,8842)

4-3-31. HIOKI 88Series Trig Kind_8847.vi

Sets or queries the kind of trigger.

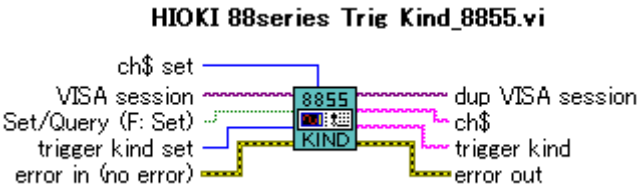


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16)
trigger kind set	◀▶	Specifies the kind of trigger Valid range: 0 (=OFF: Default), 1 (=LEVEL), 2 (=IN), 3 (=OUT), 4 (=DROP), 5 (=PERIIN), 6 (=PERIOUT), 7 (=GLITCH)
ch$	abc	Specified channel
trigger kind	abc	The result of querying the kind of trigger

(for 8847,MR8847,MR8847A)

4-3-32. HIOKI 88Series Trig Kind_8855.vi

Sets or queries the kind of trigger.

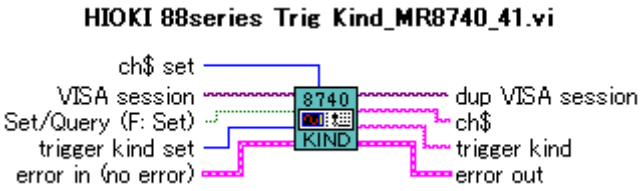


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8)
trigger kind set	◀▶	Specifies the kind of trigger Valid range: 0 (=OFF: Default), 1 (=LEVEL), 2 (=IN), 3 (=OUT), 4 (=PERIOD), 5 (=GLITCH) 6 (=EVENT)
ch$	abc	Specified channel
trigger kind	abc	The result of querying the kind of trigger

(for 8855)

4-3-33. HIOKI 88Series Trig Kind_MR8740_41.vi

Sets or queries the kind of trigger.

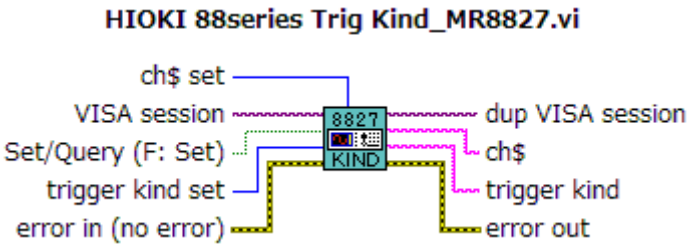


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
trigger kind set		Specifies the kind of trigger Valid range: 0 (=OFF: Default), 1 (=LEVEL), 2 (=IN), 3 (=OUT), 4 (=DROP), 5 (=PERIIN), 6 (=PERIOUT), 7 (=GLITCH)
ch$	abc	Specified channel
trigger kind	abc	The result of querying the kind of trigger

(for MR8740,MR8741)

4-3-34. HIOKI 88Series Trig Kind_MR8827.vi

Sets or queries the kind of trigger.

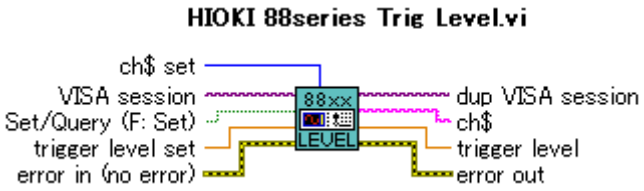


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
trigger kind set		Specifies the kind of trigger Valid range: 0 (=OFF: Default), 1 (=LEVEL), 2 (=IN), 3 (=OUT), 4 (=DROP), 5 (=PERIIN), 6 (=PERIOUT), 7 (=GLITCH)
ch$	abc	Specified channel
trigger kind	abc	The result of querying the kind of trigger

(for MR8827)

4-3-35. HIOKI 88Series Trig Level.vi

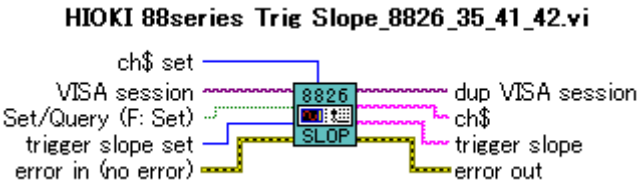
Set or queries the trigger level of the level trigger.



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
trigger level set	DBL	Sets the trigger level (unit: V)
ch$	abc	Specified channel
trigger level	DBL	The result of querying the trigger level (unit: V)

4-3-36. HIOKI 88Series Trig Slope_8826_35_41_42.vi

Sets or queries the trigger direction (slope).

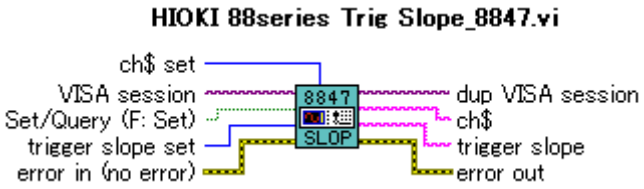


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
trigger slope set		Specifies the kind of trigger slope Valid range: 0 (=UP: Default), 1 (= DOWN)
ch$	abc	Specified channel
trigger slope	abc	The result of querying the kind of trigger slope

(for 8835(-01),8826.8841,8842)

4-3-37. HIOKI 88Series Trig Slope_8847.vi

Sets or queries the trigger direction (slope).

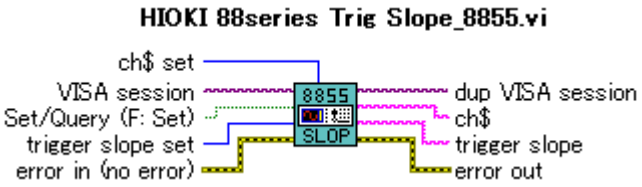


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16)
trigger slope set		Specifies the kind of trigger slope Valid range: 0 (=UP: Default), 1 (= DOWN), 2 (= UPDOWN)
ch$	abc	Specified channel
trigger slope	abc	The result of querying the kind of trigger slope

(for 8847,MR8847,MR8847A)

4-3-38. HIOKI 88Series Trig Slope_8855.vi

Sets or queries the trigger direction (slope).

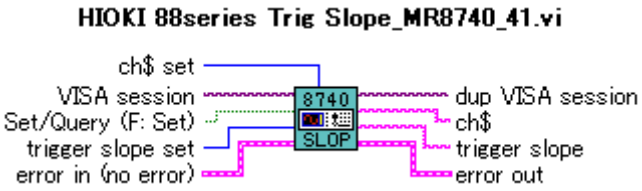


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8)
trigger slope set		Specifies the kind of trigger slope Valid range: 0 (=UP: Default), 1 (= DOWN), 2 (= UPDOWN)
ch$	abc	Specified channel
trigger slope	abc	The result of querying the kind of trigger slope

(for 8855)

4-3-39. HIOKI 88Series Trig Slope_MR8740_41.vi

Sets or queries the trigger direction (slope).

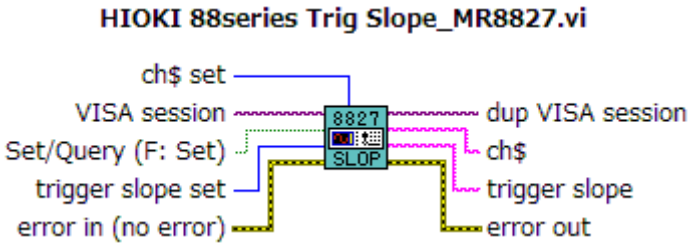


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
trigger slope set		Specifies the kind of trigger slope Valid range: 0 (=UP: Default), 1 (= DOWN), 2 (= UPDOWN)
ch$	abc	Specified channel
trigger slope	abc	The result of querying the kind of trigger slope

(for MR8740,MR8741)

4-3-40. HIOKI 88Series Trig Slope_MR8827.vi

Sets or queries the trigger direction (slope).

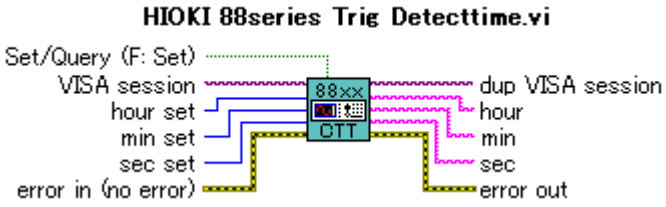


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
trigger slope set	◀▶	Specifies the kind of trigger slope Valid range: 0 (=UP: Default), 1 (= DOWN), 2 (= UPDOWN)
ch$	abc	Specified channel
trigger slope	abc	The result of querying the kind of trigger slope

(for MR8827)

4-3-41. HIOKI 88Series Trig Detecttime.vi

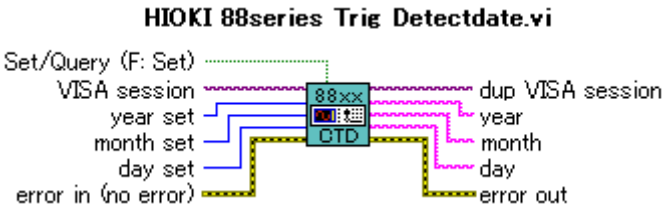
Sets or queries the time point for trigger detection.



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
hour set	I32	Specifies the time(hour) for trigger detection Valid range: 0 – 23
min set	I32	Specifies the time(minute) for trigger detection Valid range: 0 – 59
sec set	I32	Specifies the time(second) for trigger detection Valid range: 0 – 59
hour	abc	The result of querying the time(hour) for trigger detection
min	abc	The result of querying the time(minute) for trigger detection
sec	abc	The result of querying the time(second) for trigger detection

4-3-42. HIOKI 88Series Trig Detectdate.vi

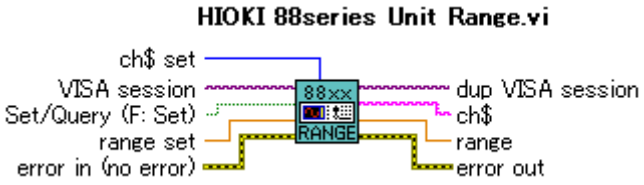
Sets or queries the date for trigger detection.



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
year set	I32	Specifies the date(year) for trigger detection Valid range: 0 – 99
month set	I32	Specifies the date(month) for trigger detection Valid range: 0 – 12
day set	I32	Specifies the date(day) for trigger detection Valid range: 0 – 31
year	abc	The result of querying the date(year) for trigger detection
month	abc	The result of querying the date(month) for trigger detection
day	abc	The result of querying the date(day) for trigger detection

4-3-43. HIOKI 88Series Unit Range.vi

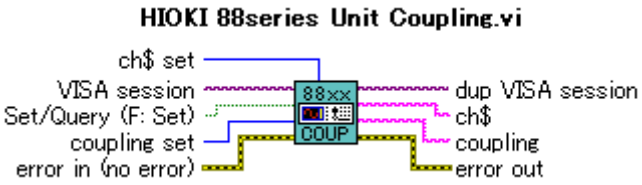
Sets or queries the measurement range of an input channel.
(except for F/V unit)



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
range set	DBL	Specifies the measurement range (unit: V、μ ε 、℃)
ch$	abc	Specified channel
range	DBL	The result of querying the measurement range (unit: V、μ ε 、℃)

4-3-44. HIOKI 88Series Unit Coupling.vi

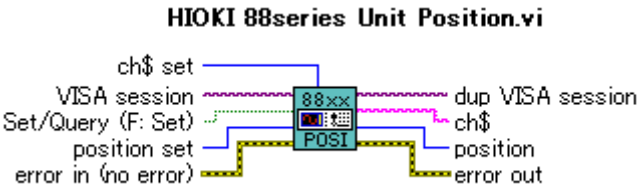
Sets or queries input coupling for an input channel.



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
coupling set		Specifies the kind of input coupling Valid range: 0 (=GND: Default), 1 (=DC), 2 (=AC)
ch$	abc	Specified channel
coupling	abc	The result of querying the kind of coupling

4-3-45. HIOKI 88Series Unit Position.vi

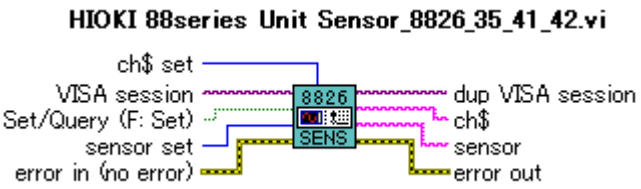
Sets or queries input channel origin position.



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
position set	I32	Specifies the input channel origin position (%)
ch$	abc	Specified channel
position	I32	The result of querying the input channel origin position (%)

4-3-46. HIOKI 88Series Unit Sensor_8826_35_41_42.vi

Sets or queries the type of the voltage/temperature unit sensor.

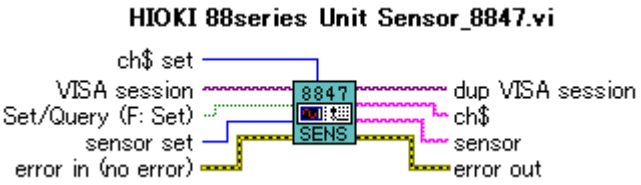


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
sensor set		Specifies the type of sensor Valid range: 0 (=K: Default), 1 (=E), 2 (=J), 3 (=T), 4 (=N), 5 (=R), 6 (=S), 7 (=B), 8 (=OFF)
ch$	abc	Specified channel
sensor	abc	The result of querying the type of sensor

(for 8835(-01),8826.8841,8842)

4-3-47. HIOKI 88Series Unit Sensor_8847.vi

Sets or queries the type of the voltage/temperature unit sensor.

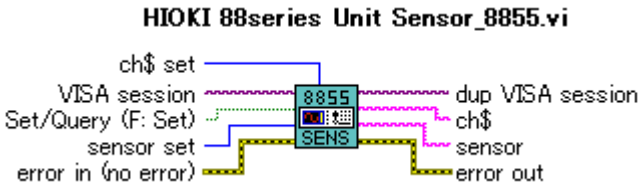


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16),
sensor set		Specifies the type of sensor Valid range: 0 (=K: Default), 1 (=J), 2 (=E), 3 (=T), 4 (=N), 5 (=R), 6 (=S), 7 (=B), 8 (=W)
ch$	abc	Specified channel
sensor	abc	The result of querying the type of sensor

(for 8847,MR8847,MR8847A)

4-3-48. HIOKI 88Series Unit Sensor_8855.vi

Sets or queries the type of the voltage/temperature unit sensor.

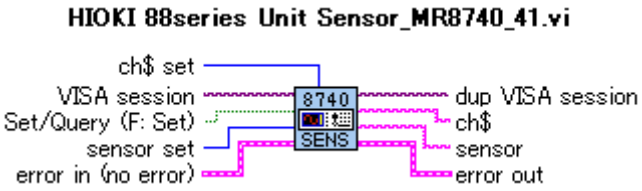


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9)
sensor set	◀▶	Specifies the type of sensor Valid range: 0 (=OFF: Default), 1 (=K), 2 (=J), 3 (=E), 4 (=T), 5 (=N), 6 (=R), 7 (=S), 8 (=B), 9 (=W)
ch$	abc	Specified channel
sensor	abc	The result of querying the type of sensor

(for 8855)

4-3-49. HIOKI 88Series Unit Sensor_MR8740_41.vi

Sets or queries the type of the voltage/temperature unit sensor.

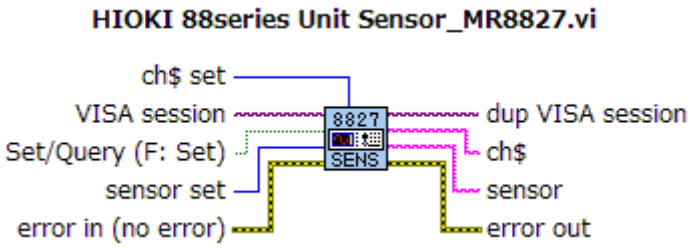


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
sensor set		Specifies the type of sensor Valid range: 0 (=K: Default), 1 (=J), 2 (=E), 3 (=T), 4 (=N), 5 (=R), 6 (=S), 7 (=B), 8 (=W)
ch$	abc	Specified channel
sensor	abc	The result of querying the type of sensor

(for MR8740,MR8741)

4-3-50. HIOKI 88Series Unit Sensor_MR8827.vi

Sets or queries the type of the voltage/temperature unit sensor.

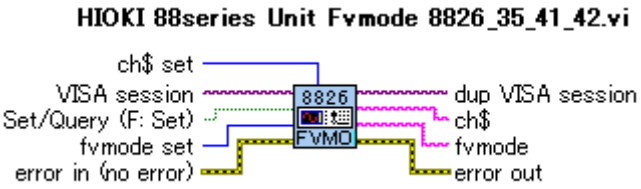


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
sensor set		Specifies the type of sensor Valid range: 0 (=K: Default), 1 (=J), 2 (=E), 3 (=T), 4 (=N), 5 (=R), 6 (=S), 7 (=B), 8 (=W)
ch$	abc	Specified channel
sensor	abc	The result of querying the type of sensor

(for MR8827)

4-3-51. HIOKI 88Series Unit Fvmode_8826_35_41_42.vi

Sets or queries the measurement mode of the F/V unit.

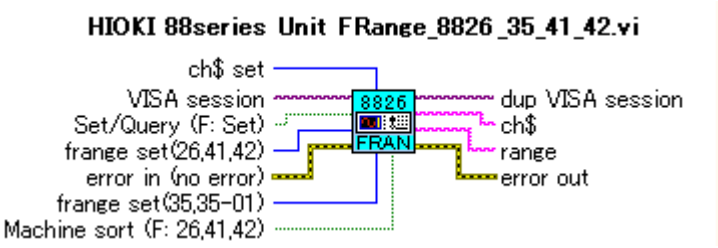


Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
fvmode set		Specifies the kind of mode Valid range: 0 (=FREQ: Default), 1 (=count), 2 (=DUTY), 3 (=VOLT), 4 (=CURRent)
ch$	abc	Specified channel
fvmode	abc	The result of querying the kind of mode

(for 8835(-01),8826.8841,8842)

4-3-52. HIOKI 88Series Unit FRange_8826_35_41_42.vi

Sets or queries the frequency range of the F/V unit.



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
frange set(26.41.42)		Specifies the range (in the case of 8826/8841/8842) Valid range: 0 (=0.05HZ: Default), 1 (=0.1HZ), 2 (=0.5HZ), 3 (=1HZ), 4 (=5HZ), 5 (=10HZ), 6 (=50HZ), 7 (=100HZ), 8 (=500HZ), 9 (=1KHZ), 10 (=5KHZ), 11 (=5RPM), 12 (=10RPM), 13 (=50RPM), 14 (=100RPM), 15(=500RPM), 16 (=P50HZ), 17 (=P60HZ)

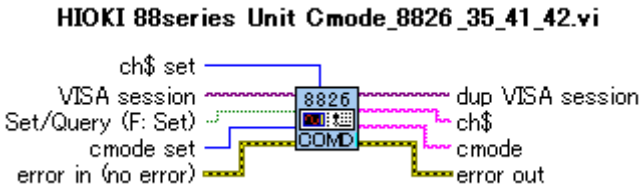
To be continued.

Name	Data type	Explanation
frange set(35.35-01)		Specifies the range (in the case of 8835/8835-01) Valid range: 0 (=0.1HZ: Default), 1 (=0.2HZ), 2 (=1HZ), 3 (=2HZ), 4 (=10HZ), 5 (=20HZ), 6 (=100HZ), 7 (=200HZ), 8 (=1KHZ), 9 (=2KHZ), 10 (=10KHZ), 11 (=10RPM), 12 (=20RPM), 13 (=100RPM), 14 (=200RPM), 15(=1KRPM), 16 (=P50HZ), 17 (=P60HZ)
Machine sort(F: 26.41.42)		Specifies the kind of machine Valid range: False (=8826,8841,8842: Default) True (=8835,8835-01)
ch$		Specified channel
frange		The result of querying the range

(for 8835(-01),8826.8841,8842)

4-3-53. HIOKI 88Series Unit Cmode_8826_35_41_42.vi

Set or queries the measurement mode of the charge unit.

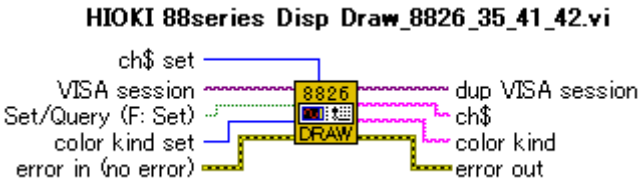


Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
Cmode set		Specifies the mode Valid range: 0 (=VOLT: Default), 1 (=CHARGE), 2 (=PREAMP)
ch$	abc	Specified channel
Cmode	abc	The result of querying the mode

(for 8835(-01),8826.8841,8842)

4-3-54. HIOKI 88Series Disp Draw_8826_35_41_42.vi

Sets or queries waveform display color.

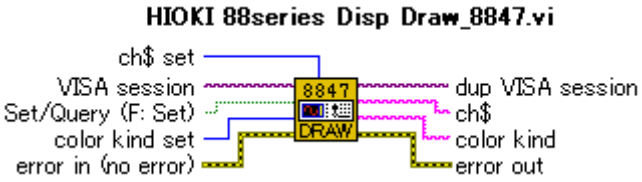


Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
color kind set		Specifies the waveform display color Valid range: 0 (=OFF: Default), 1 (=C1), 2 (=C2), 3 (=C3), 4 (=C4), 5 (=C5), 6 (=C6), 7 (=C7), 8 (=C8), 9 (=C9), 10 (=C10), 11 (=C11), 12 (=C12)
ch$	abc	Specified channel
color kind	abc	The result of querying the waveform display color

(for 8835(-01),8826.8841,8842)

4-3-55. HIOKI 88Series Disp Draw_8847.vi

Sets or queries waveform display color.

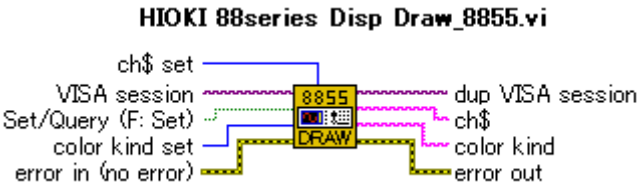


Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16)
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
color kind set		Specifies the waveform display color Valid range: 0 (=OFF: Default), 1 (=C1), 2 (=C2), 3 (=C3), 4 (=C4), 5 (=C5), 6 (=C6), 7 (=C7), 8 (=C8), 9 (=C9), 10 (=C10), 11 (=C11), 12 (=C12) 13 (=C13), 14 (=C14), 15 (=C15), 16 (=C1),
ch$	abc	Specified channel
color kind	abc	The result of querying the waveform display color

(for 8847,MR8847,MR8847A)

4-3-56. HIOKI 88Series Disp Draw_8855.vi

Sets or queries waveform display color.

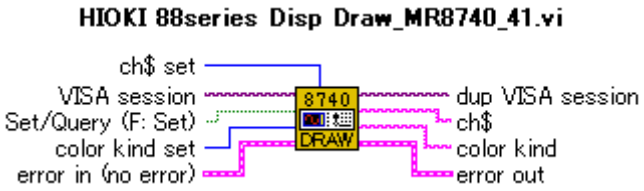


Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8)
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
color kind set		Specifies the waveform display color Valid range: 0 (=OFF: Default), 1 (=C1), 2 (=C2), 3 (=C3), 4 (=C4), 5 (=C5), 6 (=C6), 7 (=C7), 8 (=C8), 9 (=C9), 10 (=C10), 11 (=C11), 12 (=C12)
ch$	abc	Specified channel
color kind	abc	The result of querying the waveform display color

(for 8855)

4-3-57. HIOKI 88Series Disp Draw_MR8740_41.vi

Sets or queries waveform display color.

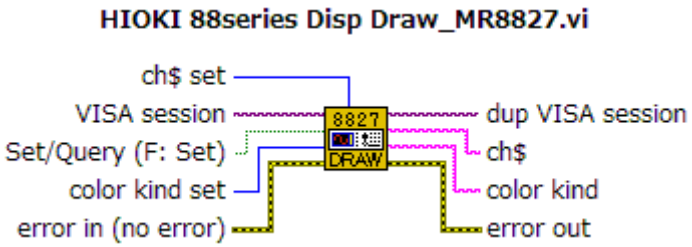


Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16)
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
color kind set		Specifies the waveform display color Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
ch$	abc	Specified channel
color kind	abc	The result of querying the waveform display color

(for MR8740,MR8741)

4-3-58. HIOKI 88Series Disp Draw_MR8827.vi

Sets or queries waveform display color.

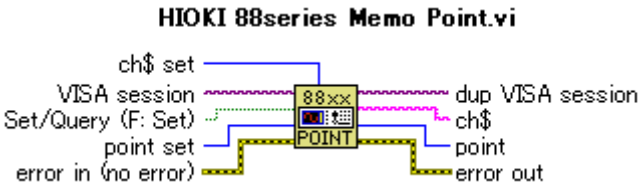


Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16)
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
color kind set		Specifies the waveform display color Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
ch$	abc	Specified channel
color kind	abc	The result of querying the waveform display color

(for MR8827)

4-3-59. HIOKI 88Series Memo Point.vi

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



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32) 32 (=CHA), 33 (=CHB), 34 (=CHC), 35 (=CHD), 36 (=CHE), 37 (=CHF), 38 (=CHG), 39 (=CHH) CH1- CH4, CHA -CHD (8835) CH1- CH8, CHA -CHD (8835-01) CH1- CH32, CHA -CHD (8826) CH1- CH16, CHA -CHD (8841,8842)
point set	U32	Specifies the number of points in memory for input/output. (can be set only to a value less than that returned by the HIOKI 88series Memo Maxpoint.vi)
ch$	abc	Specified channel
point	U32	The result of querying the point in memory for input/output.

(This command cannot be used in the MR8990 DVM unit of MR8740, MR8741 and MR8827)

4-3-60. HIOKI 88Series Memo Maxpoint.vi

Queries the number of data samples stored.

Name	Data type	Explanation
point	U32	The result of querying the number of data samples stored

(This command cannot be used in the MR8990 DVM unit of MR8740, MR8741 and MR8827)

4-3-61. HIOKI 88Series Memo Prepare.vi

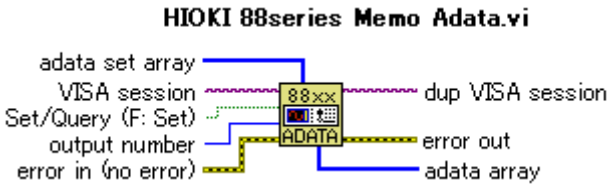
Prepares the memory.

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

(for 8835(-01),8826.8841,8842,8855)

4-3-62. HIOKI 88Series Memo Adata.vi

Inputs data to memory, or outputs stored data.



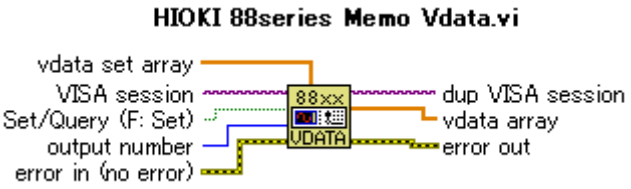
Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function * Valid range; False(=set: Default), True(=Query)
adata set array	[I32]	Sets the data(1D) for inputting to memory Valid range: -2048 – 2047
output number	U8	The number of data to output Valid range: 1– 80
adata array	[I32]	The output of stored data *2

* Refer to MEMORY HiCORDER manual to get details.

(This command cannot be used in the MR8990 DVM unit of MR8740, MR8741 and MR8827)

4-3-63. HIOKI 88Series Memo Vdata.vi

Inputs voltage data to memory, or outputs voltage data from memory.



Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function *1 Valid range; False(=set: Default), True(=Query)
vdata set array	DBL	Sets the data(1D) for inputting to memory (unit: V、μ ε 、℃)
output number	U8	The number of voltage data to output Valid range: 1- 40(8835(-01),8826.8841,8842) Valid range: 1- 80(8847,8855,MR8847,MR8847A,MR8740,MR8741)
vdata array	DBL	The output of voltage data from memory

*1 Refer to MEMORY HiCORDER manual to get details.

(This command cannot be used in the MR8990 DVM unit of MR8740, MR8741 and MR8827)

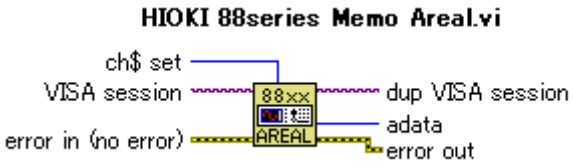
4-3-64. HIOKI 88Series Memo Getreal.vi

Captures real time data.

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

4-3-65. HIOKI 88Series Memo Areal.vi

Outputs real time data (in ASCII)



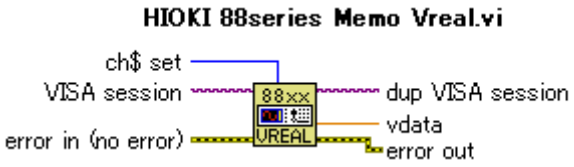
Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
adata	I32	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.

(for 8835(-01),8826.8841,8842,8855)

4-3-66. HIOKI 88Series Memo Vreal.vi

Outputs real time data (voltage values).



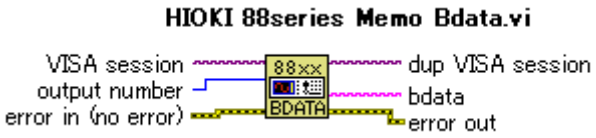
Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
vdata	I32	The output of real time data (unit: V、μ ε 、℃)

＊When the [Captures real time data.] command is not executed before this command, the returned value is not fixed.

(This command cannot be used in the MR8990 DVM unit of MR8740, MR8741 and MR8827)

4-3-67. HIOKI 88Series Memo Bdata.vi

Binary transfer of stored data.

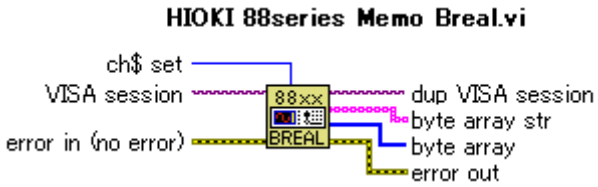


Name	Data type	Explanation
output number	U8	The number of stored data to output Valid range: 1- 200
bdata	abc	The output （#0‥‥‥‥‥‥‥‥‥‥LF(EOI)）

* Refer to MEMORY HiCORDER manual to get details.

4-3-68. HIOKI 88Series Memo Breal.vi

Outputs real time data (binary).



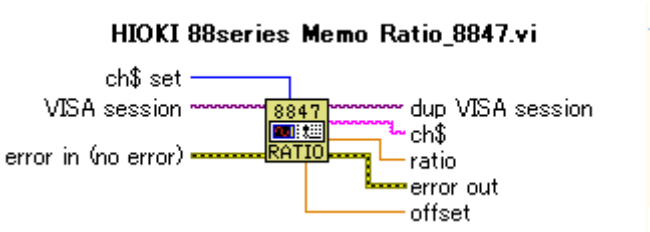
Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
byte array str	[abc]	The output (2byte, all bite)
byte array	[U8]	The output (2byte)

＊Refer to MEMORY HiCORDER manual to get details.

(for 8835(-01),8826.8841,8842,8855)

4-3-69. HIOKI 88Series Memo Ratio_8847.vi

Query the ratio and offset coefficients for converting stored data into physical values



Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16)
ch$	abc	Specified channel
ratio	abc	Ratio
offset	abc	Offset

(for 8847,MR8847,MR8847A)

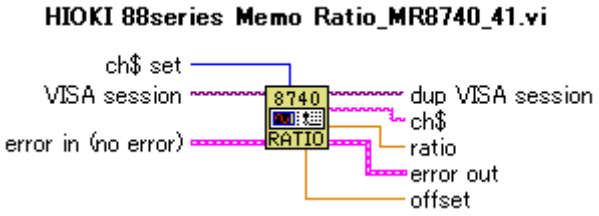
HIOKI 88series Memo Adata.vi The coefficient to convert the data acquired in the command into the physical value is returned.

The equation used to convert the data into physical values is:

(Physical value) = ratio * (Data) + offset

4-3-70. HIOKI 88Series Memo Ratio_MR8740_41.vi

Query the ratio and offset coefficients for converting stored data into physical values



Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
ch$	[abc]	Specified channel
ratio	[abc]	Ratio
offset	[abc]	Offset

(for MR8740,MR8741)

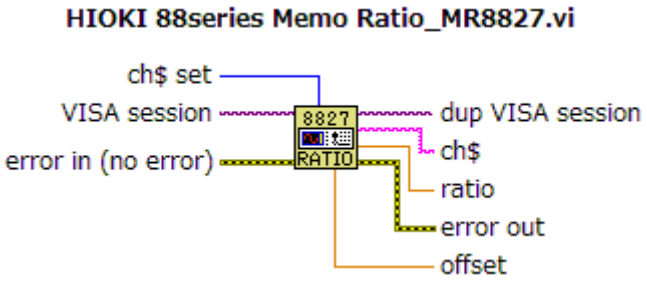
HIOKI 88series Memo Adata.vi The coefficient to convert the data acquired in the command into the physical value is returned.

The equation used to convert the data into physical values is:

(Physical value) = ratio * (Data) + offset

4-3-71. HIOKI 88Series Memo Ratio_MR8827.vi

Query the ratio and offset coefficients for converting stored data into physical values



Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
ch$	[abc]	Specified channel
ratio	[abc]	Ratio
offset	[abc]	Offset

(for MR8827)

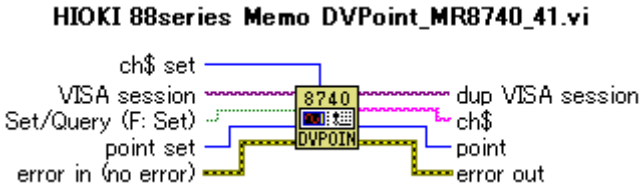
HIOKI 88series Memo Adata.vi The coefficient to convert the data acquired in the command into the physical value is returned.

The equation used to convert the data into physical values is:

(Physical value) = ratio * (Data) + offset

4-3-72. HIOKI 88Series Memo DVPoint_MR8740_41.vi

Sets or queries the point in memory for input/output.
for MR8990 DVM unit of MR8740 and MR8741

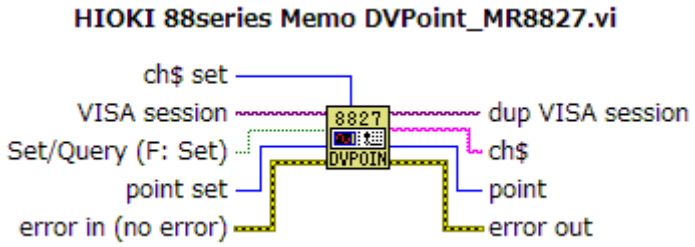


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
point set	U32	Specifies the number of points in memory for input/output. (can be set only to a value less than that returned by the HIOKI 88series Memo DVMaxpoint_MR8740_41.vi)
ch$	abc	Specified channel
point	U32	The result of querying the point in memory for input/output.

(This command can used in the MR8990 DVM unit of MR8740 and MR8741)
(A DVM unit will be 50 points the number of data per 1div)
(in addition to this, the number of data of a unit per 1div is 100 points)

4-3-73. HIOKI 88Series Memo DVPoint_MR8827.vi

Sets or queries the point in memory for input/output.
for MR8990 DVM unit of MR8827

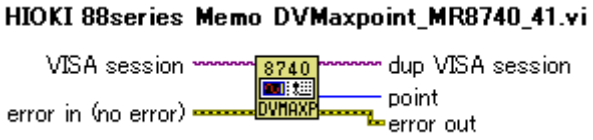


Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function Valid range; False(=set: Default), True(=Query)
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
point set	U32	Specifies the number of points in memory for input/output. (can be set only to a value less than that returned by the HIOKI 88series Memo DVMaxpoint_MR8827.vi)
ch$	abc	Specified channel
point	U32	The result of querying the point in memory for input/output.

(This command can used in the MR8990 DVM unit of MR8827)
(A DVM unit will be 50 points the number of data per 1div)
(in addition to this, the number of data of a unit per 1div is 100 points)

4-3-74. HIOKI 88Series Memo DVMaxpoint_MR8740_41.vi

Queries the number of data samples stored.
for MR8990 DVM unit of MR8740 and MR8741

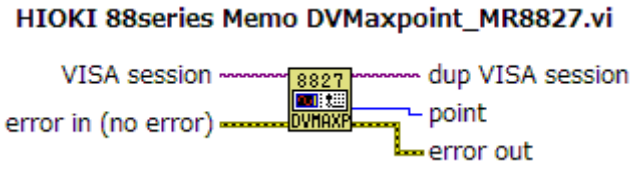


Name	Data type	Explanation
point	U32	The result of querying the number of data samples stored

(This command can used in the MR8990 DVM unit of MR8740 and MR8741)
(A DVM unit will be 50 points the number of data per 1div)
(in addition to this, the number of data of a unit per 1div is 100 points)

4-3-75. HIOKI 88Series Memo DVMaxpoint_MR8827.vi

Queries the number of data samples stored.
for MR8990 DVM unit of MR8827

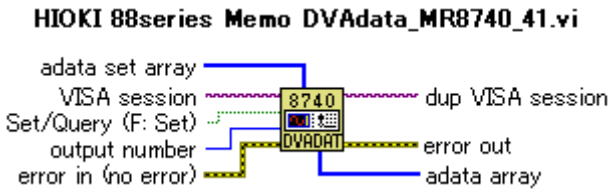


Name	Data type	Explanation
point	U32	The result of querying the number of data samples stored

(This command can used in the MR8990 DVM unit of MR8827)
(A DVM unit will be 50 points the number of data per 1div)
(in addition to this, the number of data of a unit per 1div is 100 points)

4-3-76. HIOKI 88Series Memo DVAdata_MR8740_41.vi

Inputs data to memory, or outputs stored data.
for MR8990 DVM unit of MR8740 and MR8741



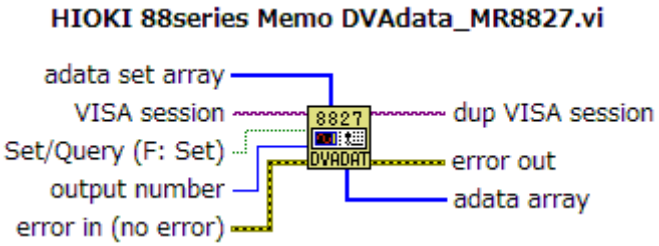
Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function * Valid range; False(=set: Default), True(=Query)
adata set array	I32	Sets the data(1D) for inputting to memory Valid range: 0 – 1677721
output number	U8	The number of data to output Valid range: 1– 80
adata array	I32	The output of stored data *2

* Refer to MEMORY HiCORDER manual to get details.

(This command can used in the MR8990 DVM unit of MR8740 and MR8741)
(A DVM unit will be 50 points the number of data per 1div)
(in addition to this, the number of data of a unit per 1div is 100 points)

4-3-77. HIOKI 88Series Memo DVAdata_MR8827.vi

Inputs data to memory, or outputs stored data.
for MR8990 DVM unit of MR8827



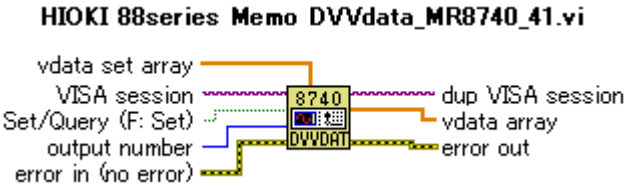
Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function * Valid range; False(=set: Default), True(=Query)
adata set array	I32	Sets the data(1D) for inputting to memory Valid range: 0 – 1677721
output number	U8	The number of data to output Valid range: 1– 80
adata array	I32	The output of stored data *2

* Refer to MEMORY HiCORDER manual to get details.

(This command can used in the MR8990 DVM unit of MR8827)
(A DVM unit will be 50 points the number of data per 1div)
(in addition to this, the number of data of a unit per 1div is 100 points)

4-3-78. HIOKI 88Series Memo DVVdata_MR8740_41.vi

Inputs voltage data to memory, or outputs voltage data from memory.
for MR8990 DVM unit of MR8740 and MR8741



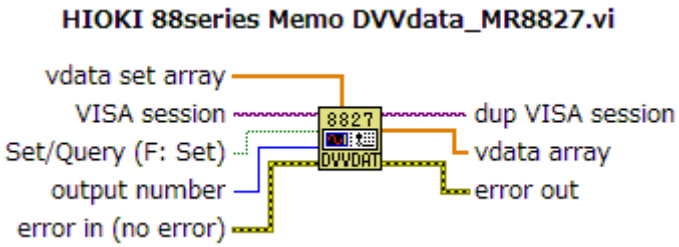
Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function *1 Valid range; False(=set: Default), True(=Query)
vdata set array	DBL	Sets the data(1D) for inputting to memory (unit: V)
output number	U8	The number of voltage data to output Valid range: 1- 80
vdata array	DBL	The output of voltage data from memory

*1 Refer to MEMORY HiCORDER manual to get details.

(This command can used in the MR8990 DVM unit of MR8740 and MR8741)
(A DVM unit will be 50 points the number of data per 1div)
(in addition to this, the number of data of a unit per 1div is 100 points)

4-3-79. HIOKI 88Series Memo DVVdata_MR8827.vi

Inputs voltage data to memory, or outputs voltage data from memory.
for MR8990 DVM unit of MR8827



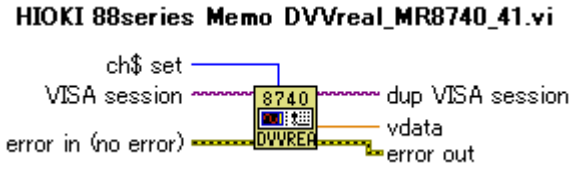
Name	Data type	Explanation
Set/Query(F:Set)	TF	Selects the setting or the querying function *1 Valid range; False(=set: Default), True(=Query)
vdata set array	DBL	Sets the data(1D) for inputting to memory (unit: V)
output number	U8	The number of voltage data to output Valid range: 1- 80
vdata array	DBL	The output of voltage data from memory

*1 Refer to MEMORY HiCORDER manual to get details.

(This command can used in the MR8990 DVM unit of MR8827)
(A DVM unit will be 50 points the number of data per 1div)
(in addition to this, the number of data of a unit per 1div is 100 points)

4-3-80. HIOKI 88Series Memo DVVreal_MR8740_41.vi

Outputs real time data (voltage values).
for MR8990 DVM unit of MR8740 and MR8741



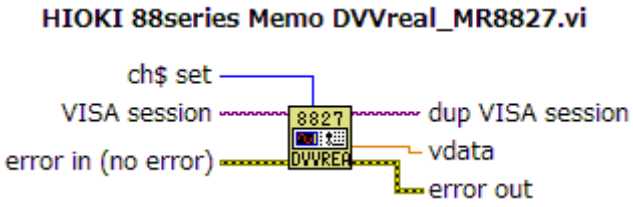
Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
vdata	I32	The output of real time data (unit: V)

＊When the [Captures real time data.] command is not executed before this command, the returned value is not fixed.

(This command can used in the MR8990 DVM unit of MR8740 and MR8741)
(A DVM unit will be 50 points the number of data per 1div)
(in addition to this, the number of data of a unit per 1div is 100 points)

4-3-81. HIOKI 88Series Memo DVVreal_MR8827.vi

Outputs real time data (voltage values).
for MR8990 DVM unit of MR8827



Name	Data type	Explanation
ch$ set	U16	Specifies the channel Valid range: 0 (=CH1: Default), 1 (=CH2), 2 (=CH3), 3 (=CH4), 4 (=CH5), 5 (=CH6), 6 (=CH7), 7 (=CH8), 8 (=CH9), 9 (=CH10), 10 (=CH11), 11 (=CH12), 12 (=CH13), 13 (=CH14), 14 (=CH15), 15 (=CH16), 16 (=CH17), 17 (=CH18), 18 (=CH19), 19 (=CH20), 20 (=CH21), 21 (=CH22), 22 (=CH23), 23 (=CH24), 24 (=CH25), 25 (=CH26), 26 (=CH27), 27 (=CH28), 28 (=CH29), 29 (=CH30), 30 (=CH31), 31 (=CH32)
vdata	I32	The output of real time data (unit: V)

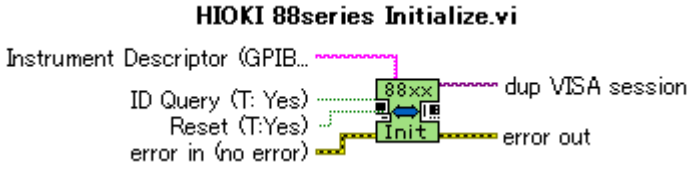
＊When the [Captures real time data.] command is not executed before this command, the returned value is not fixed.

(This command can used in the MR8990 DVM unit of MR8827)
(A DVM unit will be 50 points the number of data per 1div)
(in addition to this, the number of data of a unit per 1div is 100 points)

4-4. The VI which is not in the program library.

4-4-1. HIOKI 88Series Initialize.vi

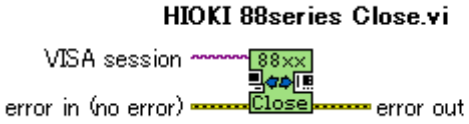
Opens the VISA session, Initializes the interface or the MEMORY HiCORDER.



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…	abc	Specifies the resource name of unit. The form: GPIB: GPIB[board number]::primary address[::secondary address][::INSTR] TCP/IP TCPIP[number]::ip address::port number::SOCKET USB COM[number]
ID Query	TF	Identifies the ID of unit. Valid range: False, True(Default).
Reset	TF	Resets the unit. Valid range: False, True(Default).

4-4-2. HIOKI 88Series 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.

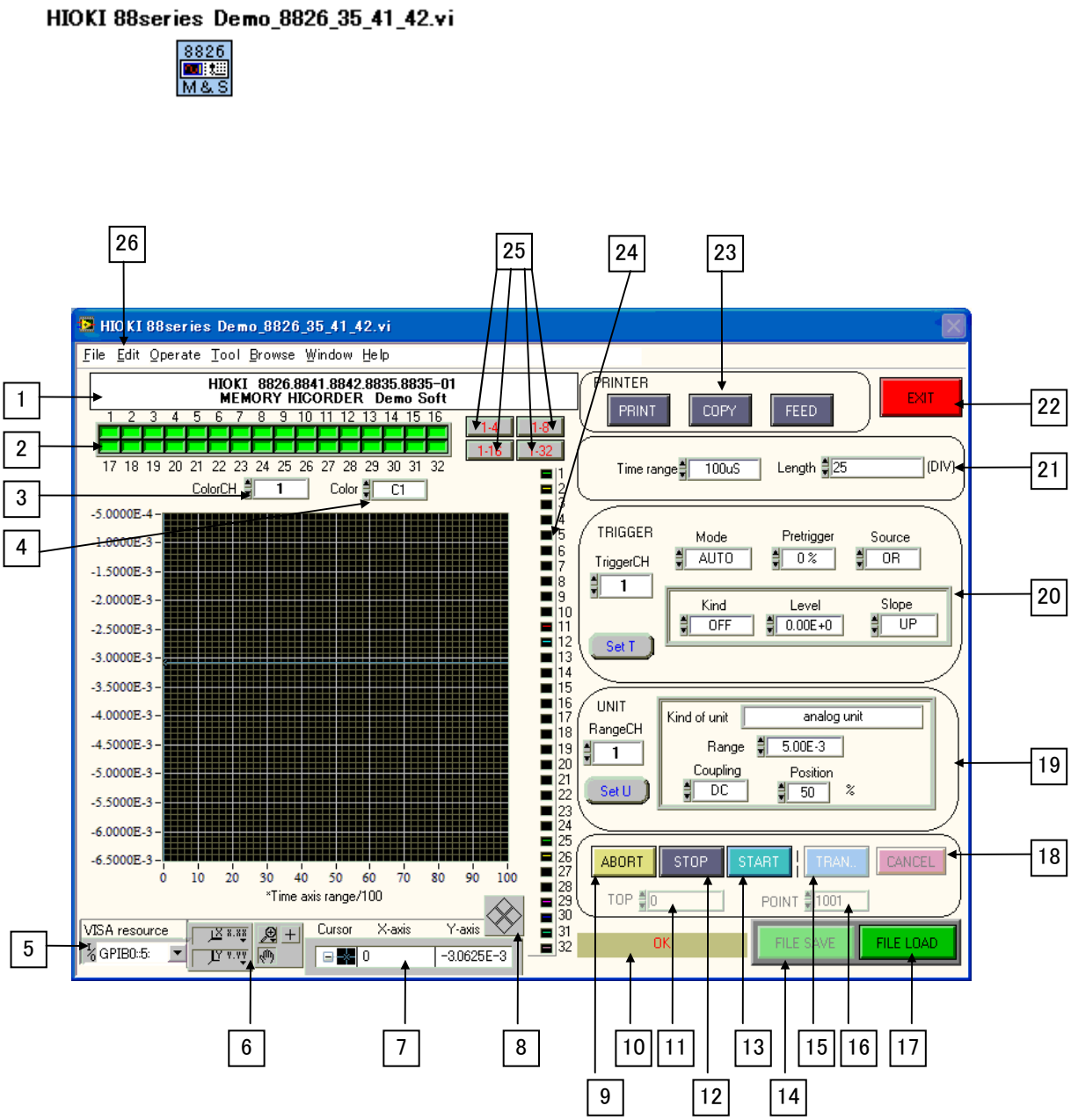
4-4-3. Wait.vi

Sets the waiting time.

Name	Data type	Explanation
times(ms)	U16	Specifies the waiting time (unit: ms)

4-4-4. HIOKI 88Series DEMO_8826_35_41_42.vi

It is a demo program for 8835(-01),8826.8841,8842 MEMORY HiCORDER



No	Function
1	It is a title.
2	1. Specified the channels from which the data will be transmitted. 2. Shows the channels when the saved data were read note: The channel whose input unit is not present can not be specified.
3	Specifies the channel. (wave color only)
4	Shows or sets the color of wave.
5	Sets the GPIB or TCPIP(LAN)
6	Changes the graph (enlargement, and so on) Note: It is a standard function of LabVIEW
7	Sets the kind of cursor, and so on. Note: It is a standard function of LabVIEW.
8	Moves the cursor. Note: It is a standard function of LabVIEW.
9	Aborts processing
10	Shows the performing condition of this program.
11	Sets start point for transmitting
12	Performs stopping (Same as the STOP key of the unit).
13	Performs starting (Same as the START key of the unit).
14	Saves data in a file. Note: It is invalid when there is no data in the graph.
15	Transmits data
16	Set the transmitting points of data
17	Reads saved data from a file.
18	Cancels transmission.
19	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, μ ε ,℃, Refer to 8835(-01),8826.8841,8842 MEMORY HiCORDER manual to get details.) (4) FRange: Shows and specifies frequency range of the F/V unit. (5) Fvmode: Shows and specifies the measurement mode of F/V unit. (6) Cmode: Shows and specifies the measurement mode of charge unit. (7) Coupling: Shows and specifies the channel coupling. (8) Position: Shows and specifies the origin position the channel. (9) Sensor: Shows and specifies the type of the voltage/temperature unit sensor. (10)Set U: Sets the (3)–(9) items (It is necessary to press the Set U button if the (3)–(9) items have been

	specified.)
20	Sets and queries items about trigger. (1) TriggerCH: Specified the channel. (2) Mode: Shows and sets the trigger mode. (3) Pretrigger: Shows and sets the pre-trigger. (4) Source: Shows and sets the trigger logical operator. (5) Sort: Shows and specifies the kind of trigger. (6) Level: Shows and specifies the trigger level of the level trigger. (Unit: V,℃, Refer to 8835(-01),8826.8841,8842 MEMORY HiCORDER manual to get details. (7) Slope: Shows and specifies the trigger slope (8) Set T: Sets the (5)-(7) items (It is necessary to press the Set T button if the (5)-(7) items have been specified.)
21	(1) Time range: Shows and sets the time axis range. (2) Length: Shows and sets recording length.
22	Exits this program
23	(1) PRINT: Performs printing(Same as the PRINT key of the unit). (2) COPY: Copies the screen(Same as the COPY key of the unit). (3) FEED: Feeds printer paper
24	Sets the color of wave, and so on. Note: It is a standard function of LabVIEW
25	(1) 1-4: Sets channels(No1) to be valid from 1 to 4. (2) 1-8: Sets channels(No1) to be valid from 1 to 8. (3) 1-16: Sets channels(No1) to be valid from 1 to 16. (4) 1-32: Sets channels(No1) to be valid from 1 to 32.
26	It is a menu Note: It is a standard function of LabVIEW

The process of transmitting data from unit.

1. Opens the HIOKI 88Series DEMO_8826_35_41_42.vi.
2. Sets the GPIB or TCPIP(LAN) assress.
3. Runs the HIOKI 88Series DEMO_8826_35_41_42.vi.
4. Sets necessary items for 8826/8841/8842/8835/8835-01 MEMORY HiCORDER.
5. Sets transmitting channel.
6. Presses the START button and Presses the STOP button, then presses the TRAN. Button.
7. In Demo Program, neither scaling nor Bar Nia starts a measurement voltage value. For acquiring the measurement voltage value which required scaling and Bar Nia, 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:

It is necessary that the memory of computer is more than 32 M bytes.

Closes the other applications before running HIOKI 88Series DEMO_8826_35_41_42.vi.

The maximum transmitting points of data is set to 2501 for avoiding swapping.

The minimum transmitting points of data is 2.

It is necessary to set the header to OFF before running HIOKI 88Series DEMO_8826_35_41_42.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 No10 is displaying “Transmitting”.

All the button are invalid except for ABORT button/STOP button/EXIT button, when the No10 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.

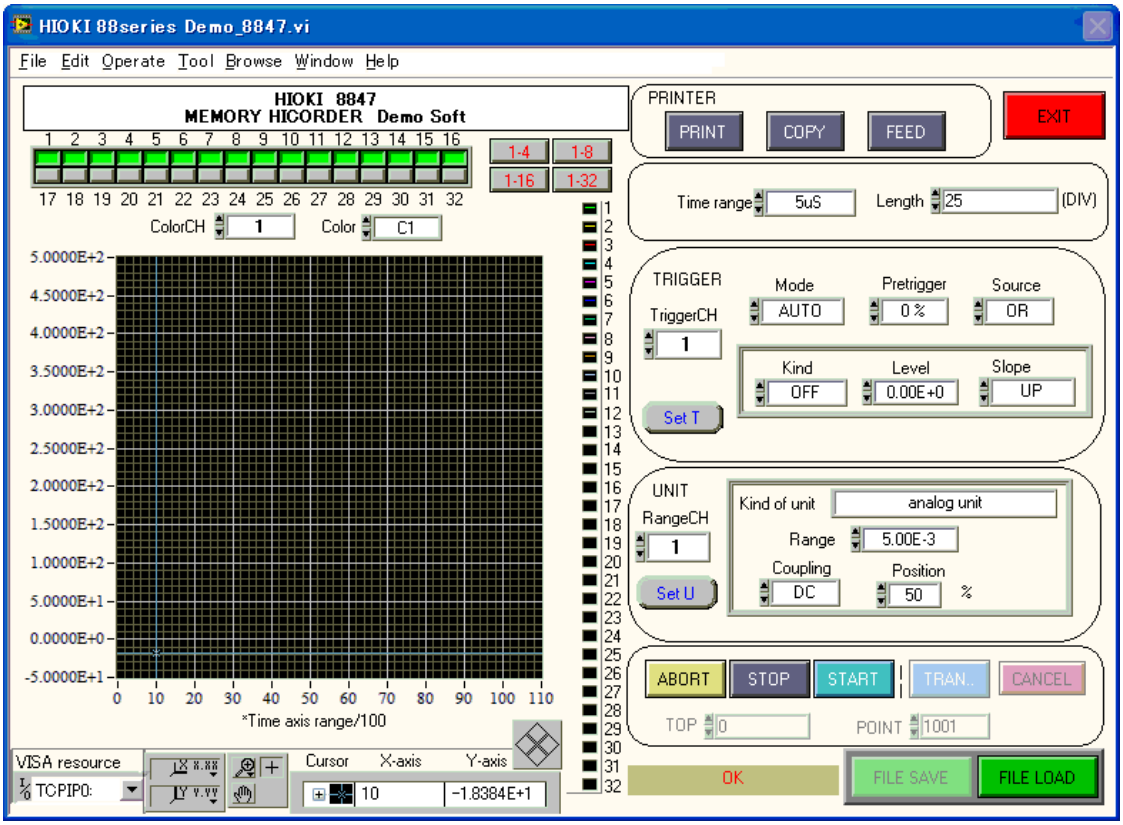
It is necessary to close LabVIEW then perform 1-6 if the HIOKI 88Series DEMO_8826_35_41_42.vi is aborted or the VISA of LabVIEW is in error, before running the HIOKI 88Series DEMO_8826_35_41_42.vi again.

4-4-5. HIOKI 88Series DEMO_8847.vi

It is a demo program for 8847,MR8847,MR8847A MEMORY HiCORDER

(Please refer to HIOKI 88series DEMO_8826_35_41_42.vi for the manner of operation etc. However, commands 8826 special are not used in 8847,MR8847,MR8847A. It is possible to use it only up to 16 channels in 8847,MR8847,MR8847A) (As for 8847,MR8847,MR8847A, COM that ties TCP/IP (LAN) and USB "Communication Device Class(CDC)" can be selected as VISA resource.)

HIOKI 88series Demo 8847.vi

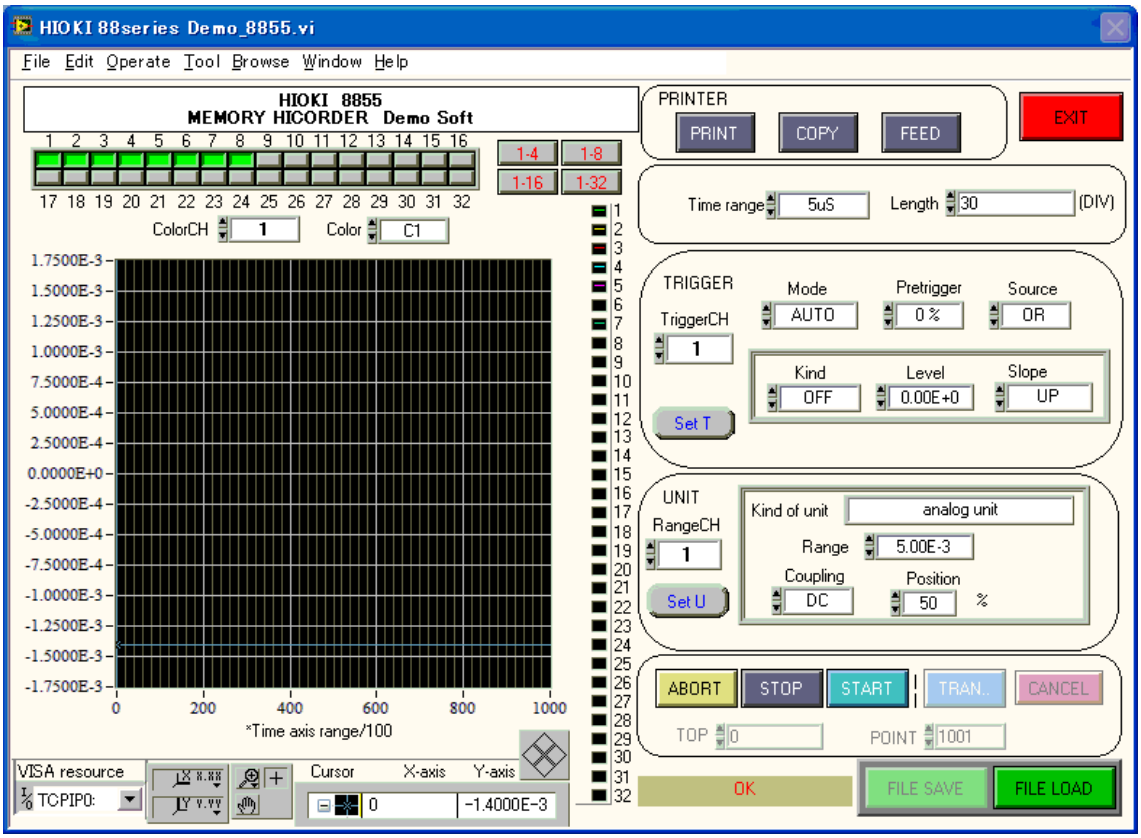


4-4-6. HIOKI 88Series DEMO_8855.vi

It is a demo program for 8855 MEMORY HiCORDER

(Please refer to HIOKI 88series DEMO_8826_35_41_42.vi for the manner of operation etc. However, commands 8826 special are not used in 8855. It is possible to use it only up to eight channels in 8855) (As for 8855, GPIB and TCP/IP (LAN) can be selected as VISA resource.)

HIOKI 88series Demo_8855.vi



4-4-7. HIOKI 88Series DEMO_MR8740_41.vi

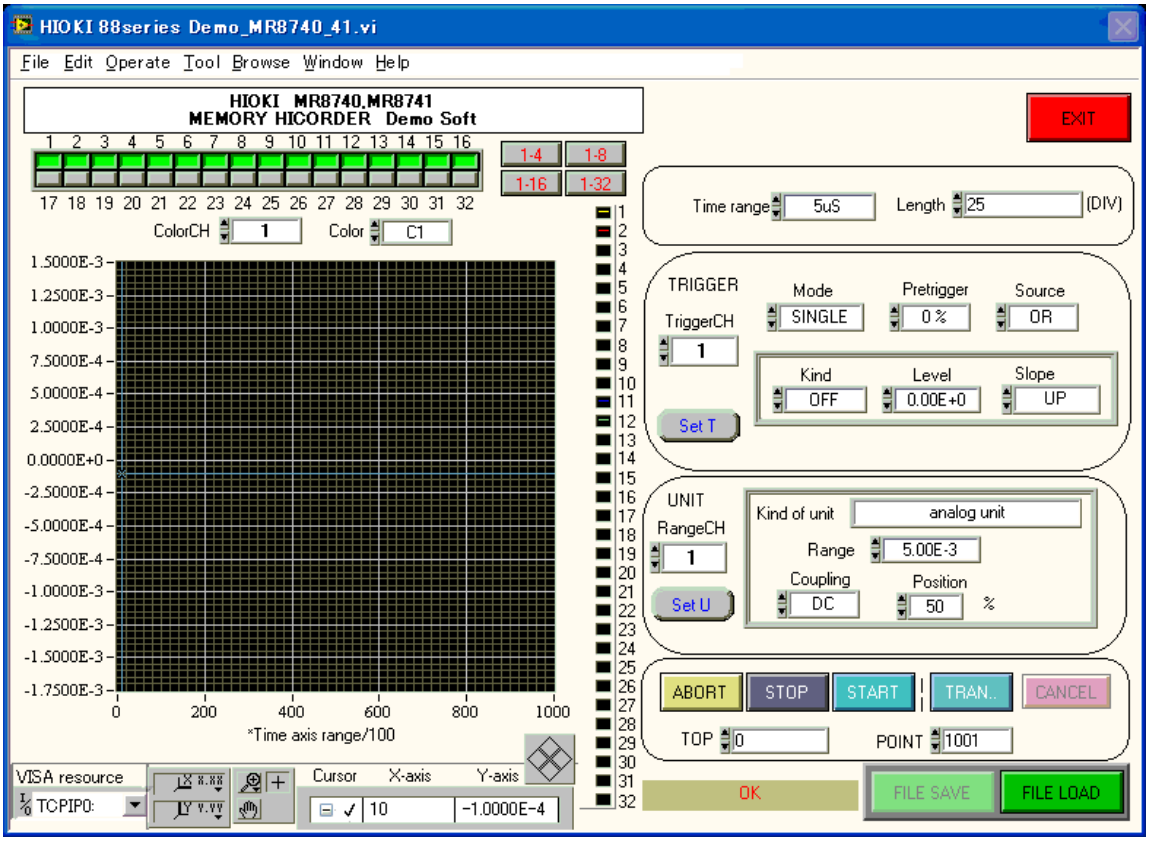
It is a demo program for MR8740,MR8741 MEMORY HiCORDER

(Please refer to HIOKI 88series DEMO_8826_35_41_42.vi for the manner of operation etc. However, commands 8826 special are not used in MR8740,MR8741. Although MR8740 is a maximum of 54 channels, from Labview, it divides into 32 channels and 22 channels, and controls it. It is possible to use it only up to 16 channels in MR8741) (As for MR8740,MR8741, COM that ties TCP/IP (LAN) can be selected as VISA resource.)

Note:
It is necessary to set the (:CHKIND OFF) before running HIOKI 88Series DEMO_MR8740_41.vi. Channel designator response form turns into MR8847 form of initial setting..

(In MR8990 DVM Unit, since the MEMory command differs from other units, this DEMO software cannot be used.)

HIOKI 88series Demo_MR8740_41.vi



4-4-8. HIOKI 88Series DEMO_MR8827.vi

It is a demo program forMR8827 MEMORY HiCORDER

(Please refer to HIOKI 88series DEMO_8826_35_41_42.vi for the manner of operation etc. However, commands 8826 special are not used in MR8827)

(As for MR8827, COM that ties TCP/IP (LAN) and USB "Communication Device Class(CDC)" can be selected as VISA resource.)

(In MR8990 DVM Unit, since the MEMory command differs from other units, this DEMO software cannot be used.)

HIOKI 88series Demo_MR8827.vi