

Setting Items	Display	Default
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Measurement Mode	MODE	NONE
Selection table	TABLE.No.	1

Δ: Target data only

Instrument	Communication			File		Backup
Reset	:SYStem :RESet	*RST	:PRESet	User- defined table save/load	All settings save/load	

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✓	✓				✓	✓

Common Settings	Common function	Automatic settings for scope of waveform acquisition		AUTO SET	Off
		The comparison judgments of waveform surface areas	Automatic settings for the judgment scope	AUTO SCOPE	ORIGINAL
			Automatic settings for the threshold value	AUTO LIMIT	ON
			Addtion of variation in judgement value	VARIATION	ADD
			Additional amount of allowance(margin value) to give threshold value	MARGIN	5.00%
		The comparison judgments of different waveform surface areas	Automatic settings for the judgment scope	AUTO SCOPE	ORIGINAL
			Automatic settings for the threshold value	AUTO LIMIT	ON
			Addtion of variation in judgement value	VARIATION	ADD
			Additional amount of allowance(margin value) to give threshold value	MARGIN	10.00%
		The waveform flutter detection judgments	Automatic settings for the judgment scope	AUTO SCOPE	ORIGINAL
			Automatic settings for the threshold value	AUTO LIMIT	ON
			Addtion of variation in judgement value	VARIATION	ADD
			Additional amount of allowance(margin value) to give threshold value	MARGIN	30.00%
		The waveform secondary differential detection judgments	Automatic settings for the threshold value	AUTO SCOPE	ORIGINAL
			Addtion of variation in judgement value	AUTO LIMIT	ON
			Additional amount of allowance(margin value) to give threshold value(LC)	VARIATION	ADD
			Additional amount of allowance(margin value) to give threshold value(RC)	MARGIN	30.00%
		Automatic Voltage Adjustment(COMMON)	Automatic Voltage Adjustment	AUTO ADJ.	Off
			Upper limit of the adjustable range		50%
		Manual Voltage Adjustment	Manual Voltage Adjustment		0FF
			Adjustment value(voltage)		100V
			Adjustment value(ratio)		0%
		Memory function		MEMORY	Off
		Display function	Display	DISP	ON
			Backlight brightness	BACKLIGHT	130
		Key beep sound	Key beep	KEY BEEP	ON
			Type of sound	BEEP TONE	0
			Volume	BEEP VOLUME	1
		Judgment beep sound	Judgment beep	JUDGE BEEP	FAIL
			Type of sound	BEEP TONE	0
			Volume	BEEP VOLUME	2
		Long format		LONG FORM	Off
		Interlock	Inerlock	INTERLOCK	Off
			Password	PASSCODE	0000
		Key lock	Key lock	KEYLOCK	Off
			Password	PASSCODE	0000
		Double action		DBL ACTN	Off
		Measurement terminal open error check		OPEN ERROR	Off
		Voltage error check		VOLT ERROR	ON
		Test time display		EOM TIME	Off
		Communication log display		COMM LOG	Off
		Background Color		SCRN COLOR	BLACK
		Fixing Startup Mode		STARTUP MODE	NORMAL
		Permanently Enabling the Interlock Function		ALWAYS INTERLOCK	Off
		Permanently Enabling Level Operation of the EXT. I/O STOP Pin		EXT. I/O STOP	EDGE
		Master voltage waveform dummy storage function			Off
		Suppress saving the settings table to the flash memory inside the ST4030A			Off
		Degaussing pulses high-speed output mode			Off

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Instrument	Communication			File		Backup
Reset	:SYStem :RESet	*RST	:PRESet	User- defined table save/load	All settings save/load	

Common Settings	Interface	Type	TYPE	USB
		Address	ADDRESS	1
		Delimitter	TERM	LF
		Transmission rate	BAUD RATE	9600
		Delimitter	TERM	CF+LF
		Flow control	HANDSHAKE	Off
		Delimitter	TERM	CF+LF
		IP address	IP ADDRESS	192.168.000.001
		Subnet mask	SUBNETMASK	255.255.255.000
		Default gateway	GATEWAY	Off
	LAN	Port	PORT	6866
		Delimitter	TERM	CF+LF
	File	Save file automatically	Save file automatically	AUTO Off
			Save to a text file	TEXT ON
			Save screen	SCREEN ON
		Save file manually	Operations when saving a file manually	MANUAL QUICK
			Save to a text file	TEXT ON
			Save screen	SCREEN ON
		Text save items	Save the save date and time	DATE ON
			Save measurement conditions	SET ON
			Save judgment values and judgment results	JUDGE ON
			Save peak values and zero-cross values	CALC ON
		Save settings	Save measurement waveform	WAVE ON
			Name of saved file	FILENAME ***
			Image save type	PICTURE COLOR
			Quotation marks	QUOTE DOUBLE
			Item delineators	ITEM DELIM COMMA
			Decimal point character	DECIM CHAR DOT
			Date format	DATE FORM YYYY/MM/DD
			Date delineators	DATE DELIM SLASH
		Folder	Save to a text file	TEXT ***
			Save memory data	MEMORY ***
			Save image	SCREEN ***
	Destruction voltage evaluation test	Automatic settings for scope of waveform acquisition		AUTO SET Off
		Applied voltage	Start voltage	START 100V
			Max. voltage	END 1000V
			Voltage rise width	STEP 100V
		Pulse	No. of measurement pulses	PULSE NUM 10
			No. of degaussing pulses	DEGAUSS NUM 0
			Min. pulse application interval	PULSE PERIOD 0.050s
		Sampling	Sampling frequency	SAMPLING 200MHz
			No. of sampling data	RECORD LENGTH 8001
		Judgment	LC/RC value judgment threshold values	LCRC AREA 6σ
			Discharge judgment threshold values	DISCHARGE 6σ
			Threshold values for comparison judgment of waveform surface areas	AREA 6σ
			Threshold values for peak value misalignment judgment	Vpeak 10%
			Threshold values for frequency misalignment judgment	FREQ 10%
		Waveform color	PASS waveform color	PASS WAVE CYAN
			FAIL waveform color	FAIL WAVE RED
			PASS discharge waveform color	PASS DCHG GRAY
			FAIL discharge waveform color	FAIL DCHG RED
		Rise time		RISE TIME TRANSIENT
		Trigger position		TRIG POS AUTO
	Discharge starting voltage test	Automatic settings for scope of waveform acquisition		AUTO SET Off
		Applied voltage	Start voltage	START 100V
			Max. voltage	TOP 1000V
			Voltage rise width	STEP 100V
		Pulse	No. of measurement pulses	PULSE NUM 10
			Min. pulse application interval	PULSE PERIOD 0.050s
		Sampling	Sampling frequency	SAMPLING 200MHz
			No. of sampling data	RECORD LENGTH 8001
			Discharge judgment threshold values	DISCHARGE 6σ
			Threshold values for peak value misalignment judgment	Vpeak 10%
			Threshold values for frequency misalignment judgment	FREQ 10%
			PASS waveform color	PASS WAVE CYAN
		Waveform color	FAIL waveform color	FAIL WAVE RED
			PASS discharge waveform color	PASS DCHG GRAY
			FAIL discharge waveform color	FAIL DCHG RED
		Return condition		TURN BACK 100%
		Rise time		RISE TIME TRANSIENT
		Trigger position		TRIG POS AUTO
		The applied voltage to be limited to increments		ONE WAY OFF

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Table name					TABLE NAME	TBL_XXX
Basic settings	Applied voltage		OUTPUT VOLT	100V		
	Application pulse	No. of measurement pulses	PULSE NUM	1		
		No. of degaussing pulses	DEGAUSS NUM	0		
		Min. pulse application interval	PULSE PERIOD	0.050s		
	Sampling	Continuous Application	CONTINUOUS	OFF		
		Sampling frequency	SAMPLING	200MHz		
	Trigger delay	No. of sampling data	RECORD LENGTH	8001		
			TRIG DELAY	0.000s		
	Automatic Voltage Adjustment(COMMON)		AUTO ADJ.	OFF		
			Upper limit of the adjustable range	50%		
Judgment	Waveform surface area comparison judgment	Implementation of comparison judgment of waveform surface areas	ENABLE	ON		
		Limit value	LIMIT	Off		
		Computation range	BEGIN	1		
		Computation range	END	8001		
	Waveform difference surface area comparison judgment	Implementation of comparison judgment of waveform difference surface areas	ENABLE	ON		
		Limit value	LIMIT	Off		
		Computation range	BEGIN	1		
		Computation range	END	8001		
	Waveform flutter detection judgment	Implementation of waveform flutter detection judgments	ENABLE	ON		
		Limit value	LIMIT	Off		
		Computation range	BEGIN	1		
		Computation range	END	8001		
	Waveform secondary differential detection judgments	Implementation of waveform secondary differential detection judgments	ENABLE	ON		
		Limit value	LIMIT	Off		
		Computation range	BEGIN	1		
		Computation range	END	8001		
	Discharge judgment	Calculation of discharge amount	ENABLE	AUTO		
		Limit value	LIMIT	Off		
		Computation range	END	8001		
	LC/RC value area judgment	LC value margin during creation of HI-LO judgment areas for the LC and RC value area judgment	LC MARGIN	10%		
		RC value margin during creation of HI-LO judgment areas for the LC and RC value area judgment	RC MARGIN	10%		
		Long side margin during creation of FIT judgment areas for the LC and RC value area judgment	SHORT SIDE MARGIN	10%		
		Short side margin during creation of FIT judgment areas for the LC and RC value area judgment	LONG SIDE MARGIN	10%		
		Implementation of LC/RC value area judgment	ENABLE	ON		
		LC/RC value area judgment enabled/disabled	JUDGE	Off		
		Peak 1 (upper left) X coordinate (LC)	POINT1	-1.000		
		Peak 1 (upper left) Y coordinate (RC)		1.000		
		Peak 2 (upper right) X coordinate (LC)	POINT2	1.000		
		Peak 2 (upper right) Y coordinate (RC)		1.000		
		Peak 3 (lower right) X coordinate (LC)	POINT3	1.000		
		Peak 3 (lower right) Y coordinate (RC)		-1.000		
		Peak 4 (lower left) X coordinate (LC)	POINT4	-1.000		
		Peak 4 (lower left) Y coordinate (RC)		-1.000		
Display	Display screen	Test conditions settings mode display screen	DISP	WAVE&LCRC		
		Test mode display screen	DISP	WAVE&LCRC		
	Overlay display		OVERLAY	Off		
	Waveform color	Master waveform color	STD WAVE	YELLOW		
		Waveform color (test conditions settings mode)	SMPL WAVE	CYAN		
		PASS waveform color (test mode)	PASS WAVE	CYAN		
		FAIL waveform color (test mode)	FAIL WAVE	RED		
		PASS discharge waveform color	PASS DCHG	GRAY		
		FAIL discharge waveform color	FAIL DCHG	RED		
	Display range	X axis (LC value upper limit)	LC UPPER	+1.000μ		
		X axis (LC value lower limit)	LC LOWER	-1.000μ		
		Y axis (RC value upper limit)	RC UPPER	+1.000μ		
		Y axis (RC value lower limit)	RC LOWER	-1.000μ		

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