GL900 m	anı u	nit Sp			115				
Item		l.	Descrip	otion					
No. of analog			8 ch	laa + 1	(d shannel) Lasis inn 1 (d shannel)	an innut (A aban : -U-)			
Alarm output (output		se input (4 channels),			
Sampling inte	ervai				24 hour/DIV				
Timer function	200								
			Date and time, daily cycle, hourly cycle Start: Data capture starts when a trigger is activated; Stop: Data capture stops when a						
Trigger functions	Type		trigger	is activ	vated				
	Condi	tion			ut signal level (analog, logic/pulse), Extern ut signal level (analog, logic/pulse), Extern				
	Comb	ination			evel: Level OR, Level AND, Edge OR, Edge				
	Mode		H (Risi	ng), L ((Falling), Window In*2, Window Out*2				
Alarm setting	functio	ns	Rising,	Falling	g, Window In*2, Window Out*2				
Alarm output *1 Number of channels: 4, Open collector output (5V, 10 kΩ pull-up ro					pull-up resistance)				
Pulse	RPM n	node	5 to 20 M RPM/F.S. (in steps of 1, 2, or 5)						
nput*1, *3	Count	mode	5 to 20 M C/F.S. (in steps of 1, 2, or 5)						
	Inst. Mode		5 to 20 M C/F.S. (in steps of 1, 2, or 5)						
Calculation fu	inctions	3	Statistical calculations *4: Average, Peak, Maximum, Minimum, RMS (2 calculations can						
					aneously)				
Other function	ns				on, annotation input function				
PC inteface					BASE-T/100BASE-TX), USB (High Speed s				
Ethernet func					unction, FTP server function, NTP client fur				
JSB function					ode (File transfer and deletion from internal	**			
Memory device	Interna				ata points / Internal flash memory:Approx.	256 MB			
	Extern	al			slot (High speed supported) *5				
Display scree	ens				digital values, enlarged waveforms, digital	values + calculation results, X-			
Display unit					color LCD	,			
Operating en		ent			o 85% R.H. (15 to 35°C when using batteri				
Withstand vo	Itage				h input channel and GND: 1000 V p-p for o 00 Vp-p for one minute	ne minute, between input			
Power	AC ada	ontor			AC, 50 to 60 Hz				
supply	DC inp			4 VDC					
		pack *6	Option	VD(-				
Power consu	_ ,	puon o	28 VA						
External dime				50 v 8	0 mm (W x H x D), approx.				
Weight (appro					ding AC adapter and battery)				
Vibration-test		ditions			automobile parts Type 1 Category A classi	fication			
Terminal						1000011			
tem	DIUC	r she	UIIIUa	шон					
Number of in	nut cha	nnole			Description Fixed to 8 channels				
Input termina		Voltage	,		BNC connector				
input terriina	i type	Temper							
Input method		Tompor			M3 screw type terminal board *7				
Measurement		Voltage			All channels isolated Imbalanced input Simultaneous sampling of all channels 20, 50, 100, 200, 500 mV; 1, 2, 5, 10, 20, 50, 100, 200, 500 V F.S., 1-5 V F.S.				
wiedourerrierit	iangos	Temper							
		Humidi			Thermocouples: K, J, E, T, R, S, B, N, W (WRe5-26) 0 to 100% (voltage 0 V to 1 V scaling conversion) * with B-530 (option)				
Input filter		· · · · · · · · · · · · · · · · · · · ·	-,		Off, Line, 5 Hz, 50 Hz, 500 Hz				
Measuremen	t	Voltage			±0.25% of F.S.				
accuracy *8			couple	Type	Measurement temperature range	Measurement accuracy			
(23°C±5°C)			Joapio	R/S	0 ≤ TS ≤100	±7.0°C			
When 30 min more have el					100 < TS ≤300	±5.0°C			
after power w					R:300 < TS ≤1600	±(0.05% of rdg +3.0°C)			
switched on					S:300 < TS ≤1760	±(0.05% of rdg +3.0°C)			
Filter : Line				В	400 ≤ TS ≤600 600 < TS <1820	±5.5°C ±(0.05% of rdg ±3.0°C)			
GND : conne	cted			K	600 < TS ≤1820 -200 ≤ TS ≤ -100	±(0.05% of rdg +3.0°C)			
				1	-200 ≤ 15 ≤ -100 -100 < TS ≤ 1370	±(0.05% of rdg +3.0°C) ±(0.05% of rdg +2.0°C)			
				E	-200 ≤ TS ≤ -100	±(0.05% of rdg +3.0°C)			
					-100 < TS ≤ 800	±(0.05% of rdg +2.0°C)			
				Т	-200 ≤ TS ≤-100	±(0.1% of rdg +2.5°C)			
					-100 < TS ≤400	±(0.1% of rdg +1.5°C)			
			J		-200 ≤ TS ≤-100	±3.7°C			
					-100 < TS ≤ 100	±2.7°C			
				NI.	100 < TS ≤ 1100	±(0.05% of rdg +2.0°C)			
				N	0 ≤ TS ≤ 1300	±(0.1% of rdg +2.0°C)			
				W	0 ≤ TS ≤ 2315	±(0.1% of rdg +2.5°C)			
						compensation accuracy: ±1.0°0 ameters T: 0.32¢, others: 0.65¢			
A/D converte	r				16 bits (out of which 14 bits are internally				
Maximum per		e input	oltage		Between input channel + and - terminals	20 mv to 1 V : 30 Vp-p :			
viaxiiiiuiii pei	missiól	o iriput \	vollage		Dotween input channel + and - terminals				
					Between input channel terminals	2 V to 500 V : 500 Vp-p			
					Between input channel terminal and GND terminal	60 Vp-p 60 Vp-p			
Withstand vo	ltago				Between input channel terminal and GND terminal				

۱1	Logic	alarm	cable	(B-513	3) is	required.
2	Cann	at ha c	ot for	logio ir	anı ıt	

- 2 Cannot be set for logic input
 3 Maximum input frequency: 50 kHz, maximum number of counts: 15 M C
 4 In real time or when Between Cursors has been specified (during Replay)
 5 1 file = 2 Gbytes (depends on the USB memory stick used)
 6 Please install two battery packs.
 7 Connections are made to both the BNC terminal and M3 screw terminal for the same channel.

Between input channel terminals

- *8 Thermocouple diameters T:0.32 ϕ , others:0.65 ϕ *9 Operating temperature range: -25 to +80°C

Control coffware enecifi	inationa						
Control software specifi	Description						
Supported OS		Nindov	ws XP, Windows V	/ista	(32-bit and 64-bit versions)		
Functions	GL900 control, re	eal-tim	e data capture, da	ata c	onversion		
Setting range	Amp settings, da	ta cap	ture settings, trigg	er se	ettings, alarm settings, other		
Captured data	Real-time data		nary: Sampling speed: 10 µs to 60 s SV: Sampling speed: 10 ms to 60 s				
	Data conversion Binary, CSV						
Display information	Analog waveforms, logic waveforms, pulse waveforms, digital values						
File conversion	Data between cu	ırsors,	s, All data				
2-screen function (Zoom)	Display of current and past data						
Display of statistics and history	Display of maxim	num, m	ninimum, and aver	age	values		
Options and accessorie	s						
Product name			Model name		Specification		
Battery pack*6			B-517		One pack		
Logic alarm cable		B-513		2 m			
DO 11 11		D =					

Display of statistics and history	Display of maximum,	minimum, and average values						
Options and accessories								
Product name		Model name	Specification					
Battery pack*6		B-517	One pack					
Logic alarm cable		B-513	2 m					
DC drive cable		B-514	2 m					
Humidity sensor*9		B-530	3 m					
Safe probe		RIC-141	1:1, 42 pF					
BNC-BNC cable		RIC-112	1.5 m					
BNC banana plug cable		RIC-113	1.5 m					
BNC alligator clip cable		RIC-114	1.5 m					
Rod-shaped K-type thermocoupl	е	RIC-410	1.1 m					
K-type thermocouple for static su	ırfaces	RIC-420	1.1 m					
L-shaped K-type thermocouple for	or static surfaces	RIC-430	1.1 m					















(1110-400)	
)

L-shaped K-type thermocouple

Digital clamp meter (incorporating output function) specifications									
tem		CM-211	CM-114	CM-113 (Leak clamp)	CM-112 (Clamp adapter)				
Current	DC	0 to 400A /0 to 2000A	0 to 400A /0 to 1000A		0 to 40A /0 to 400A				
	AC	0 to 400A /0 to 2000A	0 to 400A /0 to 1000A	0 to 300mA /0 to 60A	0 to 40A /0 to 400A				
/oltage DC		0	0	×	×				
	AC	0	0	X	X				
Other		Frequency	Frequency						
		Duty ratio	Duty ratio						
		Pulse width	Pulse width						











CM-114

CM-113



CM-112

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Between input channel terminal and GND terminal 1 minute at 1000 Vp-p



GRAPHTEC

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Email: webinfo@graphtec.co.jp

http://www.graphteccorp.com







GRAPHTEC

Voltage

Pulse

Logic



High-speed isolated 8-channel multifunction logger GLSOO

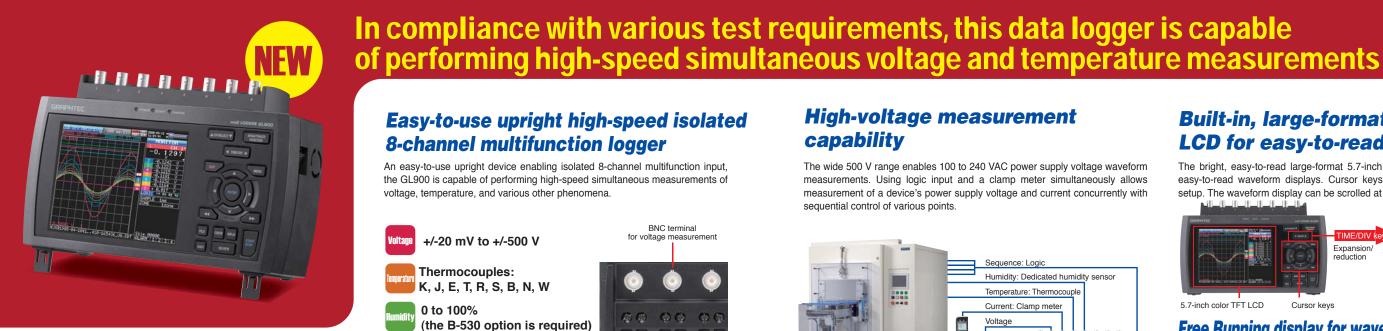


Multifunction input on eight isolated channels

High-speed simultaneous sampling on eight channels, 16-bit resolution

Equipped with a large-format 5.7-inch color LCD for easy-to-read waveform display

Data can also be saved to **PC-friendly USB memory sticks**



High-speed isolated 8-channel multifunction logger

midi LOGGER GL900

Data can be captured to **PC-friendly USB memory sticks**

Long-term data can be captured directly to built-in 256-MB flash memory or to an external USB memory stick at sampling intervals of from 1 ms to 1 min. For high-speed sampling at



Example of 8-channel analog measurement

captured to internal RAM

oupture destination	τομο	τουμο	σουμο	IIII	101110	1001110	10
Internal RAM (up to one million points)	10 seconds	Approx. 1 min. and 40 sec.	Approx. 8 min. and 20 sec.	Approx. 16 min. and 40 sec.	Approx. 2 hrs. and 40 sec.	Approx. 1 day and 3 hrs.	Approx. 11 days and 13 hrs.
Internal flash memory (256 MB)	×	×	×	Approx. 11 hrs.	Approx. 4 days	Approx. 49 days	Approx. 493 days
External USB memory stick (512 MB)	×	×	×	Approx. 22 hrs.	Approx. 8 days	Approx. 98 days	Approx. 986 days

intervals faster than 1 ms, up to

les data transfers and remote operation

The USB memory stick must be a standard model (without fingerprint recognition or other proprietary features).

Easy-to-use upright high-speed isolated 8-channel multifunction logger

An easy-to-use upright device enabling isolated 8-channel multifunction input, the GL900 is capable of performing high-speed simultaneous measurements of voltage, temperature, and various other phenomena

+/-20 mV to +/-500 V

K, J, E, T, R, S, B, N, W

Thermocouples:

4 channels

channels

Count, Inst., Rpm

Select either Pulse or Logic

The GL900 reproduces analog X-Y recorder

movements and provides the illusion of pen

up/pen down movements. It can be

operated like an analog X-Y recorder and

can also be used as a 4-pen X-Y recorder.

The digital data format facilitates

post-measurement confirmation of data

values and report creation.



M3 screw terminal for temperature measurement

both the BNC terminal and M3 screw terminal for the

High-voltage measurement capability

The wide 500 V range enables 100 to 240 VAC power supply voltage waveform measurements. Using logic input and a clamp meter simultaneously allows measurement of a device's power supply voltage and current concurrently with sequential control of various points



Built-in. large-format 5.7-inch color LCD for easy-to-read waveforms

The bright, easy-to-read large-format 5.7-inch color TFT LCD provides vivid, easy-to-read waveform displays. Cursor keys enable fast, easy control and setup. The waveform display can be scrolled at high-speed – 10 ms/DIV.



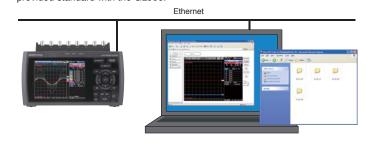
Free Running display for waveform-checking without the need for data capture

The Free Running display lets users check input signal waveforms even before measurements begin. Since waveforms are displayed on each setup screen. users can make settings while viewing the waveforms.



Easy PC measurement via USB; remote monitoring via Ethernet web server and FTP functions

The USB and Ethernet connections enable transfer of captured data to your PC and setup and control of the GL900 from a PC, even without the PC software provided standard with the GL900.



Web server/FTP server functions

Waveform display and GL900 setup operations can be performed via a web browser (e.g., Internet Explorer). In addition, data files captured to the GL900's internal memory or to a USB memory stick can be transferred or deleted from the PC.

When your GL900 is connected to your PC via the USB interface, the GL900 can be operated in USB mode to enable fast, easy data transfers from internal memory to the PC.

NTP client function

Simply connect the GL900 to an NTP server via an Ethernet connection to synchronize GL900 time with NTP server time at periodic intervals

even during high-speed sampling Lets users perform high-precision temperature measurements even during

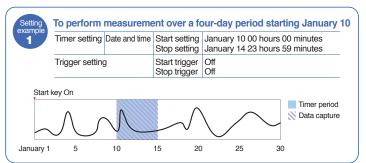
Can be used as an X-Y recorder

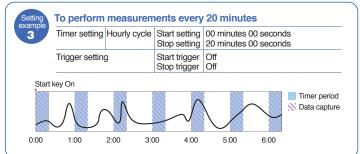
high-speed sampling - ideal for performing combined voltage and temperature measurements

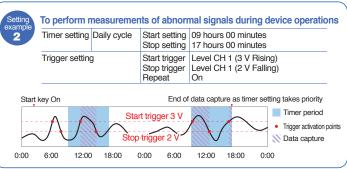
High-precision temperature measurement

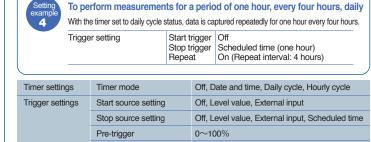
Comprehensive built-in trigger and timer functions

Using a combination of trigger and timer functions eliminates superfluous data and enables capture of only the required data.





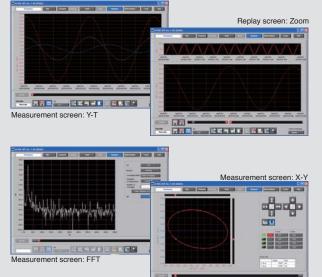




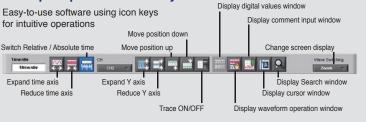
On, Off and Repeat interval

Dedicated software for real-time data capture

Three measurement screens are provided to allow selection of the screen that best suits measurement needs The Replay screen provides a Zoom screen feature to enable enlarged display of specific sections of long-term measurement data



Simple operations for anyone



■ Convenient functions

Various convenient data-processing functions are built in.

■ Direct to Excel function This function enables measurement data to be written directly to an Excel file. Search function This function enables searching for specific values in the

captured data CSV batch conversion function

This function enables batch conversion of multiple captured

Thumbnail function This function enables display of captured data files as thumbnails