lå e sta	ain u	nit sp	ecitio	atio	ns				
Item Description		otion							
No. of analog input ch. 8 ch									
External input/output		Trigger input (1 channel), Logic input (4 channels) or Pulse input (4 channels), Alarm output (4 channels)							
Sampling interval		Alarm output (4 channels) 10us to 1 min							
			10 ms/	DIV to	24 hour/DIV				
Timer functions Date and time			Date a	nd time	e, daily cycle, hourly cycle				
	Туре					ture starts when a trigger is activated; Stop: Data capture stops when a			
trigger is ac Condition Start: Off, In						01*1			
	Condi	uon			ut signal level (analog, logic/pulse), Extern ut signal level (analog, logic/pulse), Extern				
					evel: Level OR, Level AND, Edge OR, Edge				
					Falling), Window In*2, Window Out*2				
Alarm setting	functio	ns	Rising,	Falling	Window In*2, Window Out*2				
					annels: 4, Open collector output (5V, 10 kg	Ω pull-up resistance)			
Pulse nput*1, *3	RPM n				M/F.S. (in steps of 1, 2, or 5)				
iput ', •	Count mode Inst. Mode		5 to 20 M C/F.S. (in steps of 1, 2, or 5)						
Calculation fu			5 to 20 M C/F.S. (in steps of 1, 2, or 5) Statistical calculations *4: Average, Peak, Maximum, Minimum, RMS (2 calculations can						
Jaiculation Tu	Inctions	•				IIITIUITI, FINIO (2 CAICUIALIOTIS CAT			
Other function	าร			be set simultaneously) Search function, annotation input function					
PC inteface	-		Etherne	et (10E	BASE-T/100BASE-TX), USB (High Speed s				
Ethernet funct	tions				unction, FTP server function, NTP client fur				
JSB function	1.1.				ode (File transfer and deletion from internal				
louioo	Interna				ata points / Internal flash memory:Approx. 3 slot (High speed supported) *5	256 MB			
Display scree	Extern	al		,	digital values, enlarged waveforms, digital	values + calculation results Y-V			
Display scree Display unit	113				color LCD				
Dperating env	vironme	ent			o 85% R.H. (15 to 35°C when using batteri	es)			
Vithstand vol					h input channel and GND: 1000 V p-p for o				
			termina	als: 100	00 Vp-p for one minute				
	AC ada				AC, 50 to 60 Hz				
H	DC inp		8.5 to 24 VDC						
Power consur		pack *6	Option 28 VA						
External dime				50 x 8	0 mm (W x H x D), approx.				
Neight (appro					ling AC adapter and battery)				
/ibration-teste		ditions	-		automobile parts Type 1 Category A classi	fication			
						lication			
Terminal	bloc	k spe				lication			
	bloc	k spe							
tem					S				
tem Number of inp	out cha		cifica		S Description				
Terminal tem Number of inp nput terminal	out cha	nnels	cifica		S Description Fixed to 8 channels BNC connector M3 screw type terminal board *7				
tem Number of inp nput terminal nput method	out cha I type	nnels Voltage Temper	cifica e rature		S Description Fixed to 8 channels BNC connector M3 screw type terminal board *7 All channels isolated Imbalanced input Simu	itaneous sampling of all channels			
tem Number of inp nput terminal nput method	out cha I type	nnels Voltage Temper	cifica a rature		S Description Fixed to 8 channels BNC connector M3 screw type terminal board *7 All channels isolated Imbalanced input Simu 20, 50, 100, 200, 500 mV; 1, 2, 5, 10, 20, 50	Itaneous sampling of all channels 1, 100, 200, 500 V F.S., 1-5 V F.S.			
tem Number of inp nput terminal	out cha I type	nnels Voltage Temper Voltage Temper	cifica e rature e rature		S Description Fixed to 8 channels BNC connector M3 screw type terminal board *7 All channels isolated Imbalanced input Simu 20, 50, 100, 200, 500 mV; 1, 2, 5, 10, 20, 50 Thermocouples : K, J, E, T, R, S, B, N, W	Itaneous sampling of all channels , 100, 200, 500 V F.S., 1-5 V F.S. (WRe5-26)			
tem Number of inp nput terminal nput method Measurement	out cha I type	nnels Voltage Temper	cifica e rature e rature		S Description Fixed to 8 channels BNC connector M3 screw type terminal board *7 All channels isolated Imbalanced input Simu 20, 50, 100, 200, 500 mV; 1, 2, 5, 10, 20, 50 Thermocouples : K, J, E, T, R, S, B, N, W 0 to 100% (voltage 0 V to 1 V scaling con	Itaneous sampling of all channels , 100, 200, 500 V F.S., 1-5 V F.S. (WRe5-26)			
tem Number of inp nput terminal nput method Aeasurement nput filter	out cha I type ranges	nnels Voltage Tempel Voltage Tempel Humidi	e rature rature ty		S Description Fixed to 8 channels BNC connector M3 screw type terminal board *7 All channels isolated Imbalanced input Simu 20, 50, 100, 200, 500 mV; 1, 2, 5, 10, 20, 50 Thermocouples : K, J, E, T, R, S, B, N, W 0 to 100% (voltage 0 V to 1 V scaling con Off, Line, 5 Hz, 50 Hz, 500 Hz	Itaneous sampling of all channels , 100, 200, 500 V F.S., 1-5 V F.S. (WRe5-26)			
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tem Jumber of inp nput terminal nput method Aeasurement Aeasurement accuracy *8 23°C±5°C)	out cha I type ranges t	nnels Voltage Temper Voltage Temper Humidi Voltage	e rature rature ty	tions	S Description Fixed to 8 channels BNC connector M3 screw type terminal board *7 All channels isolated Imbalanced input Simu 20, 50, 100, 200, 500 mV; 1, 2, 5, 10, 20, 50 Thermocouples : K, J, E, T, R, S, B, N, W to 100% (voltage 0 V to 1 V scaling con Off, Line, 5 Hz, 50 Hz, 500 Hz ±0.25% of F.S. Measurement temperature range 0 ≤ TS ≤100	Itaneous sampling of all channels , 100, 200, 500 V F.S., 1-5 V F.S. (WRe5-26) version) * with B-530 (option) Measurement accuracy ±7.0°C			
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tem Number of inp nput terminal Neasurement Neasurement deasurement cocuracy *8 23°C±5°C) When 30 minu nore have ela	t tutes or apsed	nnels Voltage Temper Voltage Temper Humidi Voltage	e rature rature ty	Type	S Description Fixed to 8 channels BNC connector M3 screw type terminal board *7 All channels isolated Imbalanced input Simu 20, 50, 100, 200, 500 mV; 1, 2, 5, 10, 20, 50 Thermocouples : K, J, E, T, R, S, B, N, W 0 to 100% (voltage 0 V to 1 V scaling con Off, Line, 5 Hz, 50 Hz, 500 Hz $\pm 0.25\%$ of F.S. Measurement temperature range 0 $\leq$ TS $\leq$ 100 100 < TS $\leq$ 300 R:300 < TS $\leq$ 1600	Itaneous sampling of all channels 1, 100, 200, 500 V F.S., 1-5 V F.S. (WRe5-26) version) * with B-530 (option) Measurement accuracy ±7.0°C ±5.0°C ±0.0°C +10.0°C +10.0°C)			
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*1 Logic alarm cable	(B-513)	is required.
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- \*1 Logic alarm cable (B-513) is required.
   \*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.
   \*8 Thermocouple diameters T:0.324, others:0.654

\*9 Operating temperature range: -25 to +80°C

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Control software specifi	cations					
tem	Description					
Supported OS	Windows 2000, V	Vindo	lows XP, Windows Vista (32-bit and 64-bit versions)			
Functions	GL900 control, real-time data capture, data conversion					
Setting range	Amp settings, data capture settings, trigger settings, alarm settings, other					
Captured data	Real-time data		Binary: Sampling speed: 10 μs to 60 s CSV: Sampling speed: 10 ms to 60 s			
	Data conversion	Bina	ry, CSV			
Display information	Analog waveform	ns, lo	gic waveforms, pulse w	aveforms, digital values		
File conversion	Data between cu	rsors	, All data			
2-screen function (Zoom)	Display of curren	t and	past data			
Display of statistics and history	Display of maxim	um, i	minimum, and average	values		
<b>Options and accessorie</b>	S					
Product name			Model name	Specification		
Battery pack*6			B-517	One pack		
_ogic 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		
3NC banana plug cable			RIC-113	1.5 m		
BNC alligator clip cable			RIC-114	1.5 m		
Rod-shaped K-type thermocoup	le		RIC-410	1.1 m		
K-type thermocouple for static si	urfaces	RIC-420	1.1 m			
-shaped K-type thermocouple f	or static surfaces		RIC-430	1.1 m		
Battery pack Logic alarm cable (B-517) (B-513)			DC drive cable (B-514)	Humidity sensor (B-530)		
1.0	1 12					



thermocouple (RIC-410)

Safe probe (RIC-141)

Other

K-type thermocouple L-shaped K-type thermocouple for static surfaces for static surfaces (RIC-430) (RIC-420)

CM-112 (Clamp adapter CM-113 (Leak clamp) CM-21 CM-114 0 to 400A /0 to 2000A 0 to 400A /0 to 1000A 0 to 40A /0 to 400A Current DC 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 Voltage DC AC Frequency Duty ratio Frequency Duty ratio Pulse width Pulse width



RoHS Compliant model



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ER040806 Vol.1

## GRAPHTEC

channels & high speed simultaneous samp

# High-speed isolated 8-channel multifunction logger GL900



## NEW

CURSOR DISPLAY

SPAN/TRACE POSITION

.

▲ CH SELECT ▼

QUE

Multifunction input on eight isolated channels

on eight channels, 16-bit resolution

color LCD for easy-to-read waveform display

**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**

external USB memory stick at sampling intervals of from 1 ms to 1 min. For high-speed sampling at intervals faster than 1 ms, up to one million data points can be captured to internal RAM

Long-term data can be captured directly to built-in 256-MB flash memory or to an Easy data transfer to desktop PC.

LAN / USB

bles data transfers and remote operation

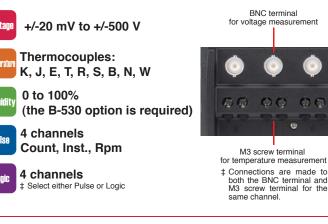
Example of	8-channel	analog	mea	surem	ent

	Capture destination	10µs	100µs	500µs	1ms	10ms	100ms	1s
	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 day: and 13 hrs.
	Internal flash memory (256 MB)	×	×	×	Approx. 11 hrs.	Approx. 4 days	Approx. 49 days	Approx. 493 day
	External USB memory stick (512 MB)	×	x	x	Approx. 22 hrs.	Approx. 8 days	Approx. 98 days	Approx. 986 day
The USB memory stick must be a standard model (without fingerprint recognition or other proprietary fe							ry features	

In compliance with various test requirements, this data logger is capable of performing high-speed simultaneous voltage and temperature measurements

### 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



## Can be used as an X-Y recorder

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.

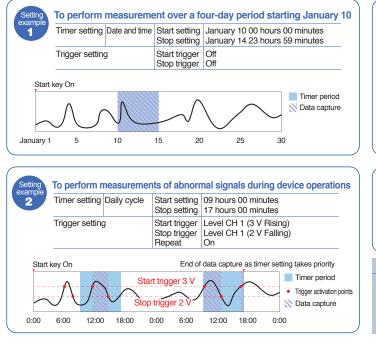


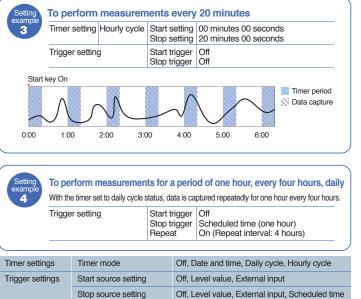
#### **High-precision temperature measurement** even during high-speed sampling

Lets users perform high-precision temperature measurements even during high-speed sampling - ideal for performing combined voltage and temperature measurements

## **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





0-100%

On, Off and Repeat interval

Pre-trigge

Repeat capture

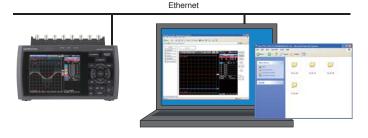
## **High-voltage measurement** capability

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



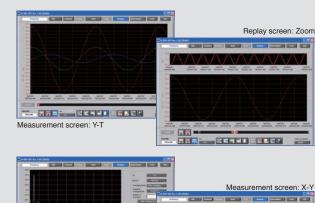
## Easy PC measurement via USB; remote monitoring via Ethernet web server and FTP functions

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.



## 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



RECEIPTION DO

urement screen: FF

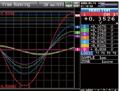
captured data

## 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.







5.7-inch color TFT LCD

Cursor kevs

### 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.



#### 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.

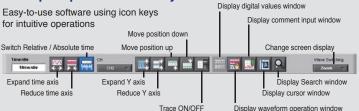
#### **USB drive mode**

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.

#### 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

#### CSV batch conversion function

This function enables batch conversion of multiple captured files to CSV file format.

Thumbnail function

This function enables display of captured data files as thumbnails