GRAPHTEC

High-speed isolated 8-channel multifunction logger midi LOGGER

GL900



Pulse

Humidity

Voltage

Strain

Temp°

Frequency

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 comprehensive waveform display

Data can be saved to USB memory sticks



High-speed isolated 8-channel multifunction logger

midi LOGGER

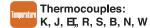
GL900

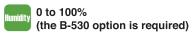
In compliance with various test of performing high-speed simult

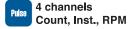
Easy-to-use, upright, high-speed, isolated 8-channel multifunction logger

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.













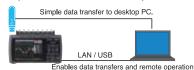
M3 screw terminal for temperature measurement

‡ Connections are made to both the BNC terminal and M3 screw terminal for the same channel.

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 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 an internal RAM.

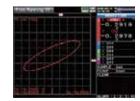


Example of 8-channel analog measurement

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

Can be used 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.

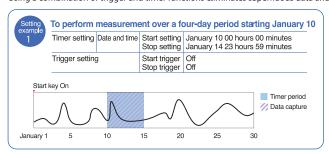


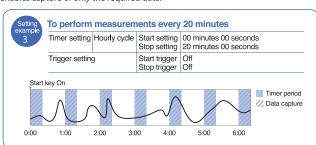
High precision measurement even during high-speed sampling

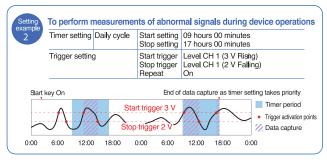
Lets users perform high-precision temperature measurements even during high-speed sampling – ideal for performing combined voltage and temperature measurements.

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.







Setting example 4						
	Trigger setting		Start t Stop t Repe	rigger	Off Scheduled time (one hour) On (Repeat interval: 4 hours)	

Timer settings	Timer mode	Off, Date and time, Daily cycle, Hourly cycle		
Trigger settings	Start source setting	Off, Level value, External input		
	Stop source setting	Off, Level value, External input, Scheduled time		
	Pre-trigger	0 -100%		
	Repeat capture	On, Off and Repeat interval		

equirements, this data logger is capable neous voltage and temperature measurements

High-voltage measurement capabilities

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 mt/DI



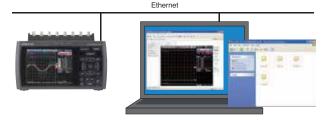
Free Running display for waveform-analysis for non-recording usage

The Free Running display lets users check input signal waveforms even before measurements begin. Waveformsare displayed on each setup screen, A users can change settings while viewing the waveforms

input egin.

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 as standard software with the GL900.



Web server/FF 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

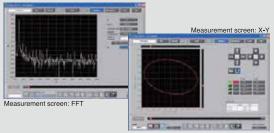
Simply connect the GL900 to an NTP server via an Ethernet connection to synchronize GL900 time with NT server time at periodic intervals.

Dedicated software for real-time data capture

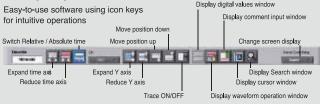
Three measurement screens are provided to allow selection of the screen that best suits measurement needs.

The Replay screen provides a Zoom screen feature to enable enlarged display of specific sections of long-term measurement data.





Simple operations for various user levels.



■ 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 files to CSV file format.

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

Time	os when a					
No. of analog input ch. S ch	os when a					
Trigger input (1 channel), Logic input (4 channels) or Pulse input (4 channels)	os when a					
Alarm output (4 channels) Sampling interval 10 us to 1 min 10 ms/DIV to 24 hour/DIV Timer functions Date and time, daily cycle, hourly cycle Trigger functions Type Start: Data capture starts when a trigger is activated; Stop: Data capture stor trigger is activated Condition Start: Off, Input signal level (analog, logic/pulse), External*1 Stop: Off, Input signal level (analog, logic/pulse), External*1, Scheduled time Input signal level: Level OR, Level AND, Edge OR, Edge AND Mode H (Rising), L(Falling), Window In*2, Window Out*2 Alarm setting functions Rising, Falling, Window In*2, Window Out*2 Alarm output *1* Number of channels: 4, Open collector output (V5,10 k Ω pull-up resistance) input*1, *3 to 20 M RPM/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) Inst. Mode 5 to 20 M C/F.S. (in steps of 1, 2, or 5)	os when a					
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Pulse nput*1, *3						
nput*1, *3						
Inst. Mode 5 to 20 M C/F.S. (in steps of 1, 2, or 5)						
Statistical calculations 7. Average, Feak, Maximum, Minimum, Fivio (2 calculations)	lations son					
be set simultaneously)						
Other functions Search function, annotation input function						
C interface Ethernet (10BASE-T/100BASE-TX), USB (High Speed supported) provided a						
thernet functions Web server function, FTPserver function, NTPclient function						
USB drive mode (File transfer and deletion from internal GL900 memory)						
Memory Internal One million data points / Internal flash memory:Approx. 256 MB						
levice External USB memory slot (High speed supported) *5						
Display screens Waveforms + digital values, enlarged waveforms, digital values + calculation r	Waveforms + digital values, enlarged waveforms, digital values + calculation results, X-Y					
Display unit 5.7-inch TFT color LCD						
Operating environment 0 to 40°C, 5 to 85% R.H. (15 to 35°Cwhen using batteries)						
Vithstand voltage Between each input channel and GND: 1000 V p-p for one minute, between	nput					
terminals: 1000 Vp-p for one minute						
	100 to 240 VAC, 50 to 60 Hz					
De input	8.5 to 24 VDC					
Battery pack *6 Option Power consumption 28 VA						
External dimensions 232 x 150 x 80 mm (W x H x D), approx.						
Weight (approx.) 1.1 kg (excluding AC adapter and battery)						
Vibration-tested conditions Equivalent to automobile partsType 1 Category A classification						
Terminal block specifications						
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	II channels					
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Public terminal type	, 1-5 VF.S. (option) racy opcolor op					

Control software spec						
Item	Description					
Supported OS	_		All Editions Windows Vista (32-bit and 64-bit versions)			
Functions			time data capture, data conversion			
Setting range			capture settings, trigger settings, alarm settings, other			
Captured data	Real-time data	Binary: Sampling speed: CSV: Sampling speed: 10				
	Data conversion	Binary, CSV				
Display information	Analog waveform	ns, logic waveforms, pulse	logic waveforms, pulse waveforms, digital values			
File conversion	Data between cu	rsors, All data, Thin out fu	rs, All data, Thin out function			
2-screen function (Zoom)	Display of curren	t and past data				
Display of statistics and history	Display of maxim	um, minimum, and averag	minimum, and average values			
Options and accessor	ies					
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 thermocoup	ple	RIC-410	1.1 m			
K-type thermocouple for static s	surfaces	RIC-420	1.1 m			
L-shaped K-type thermocouple	for static surfaces	RIC-430	1.1 m			
Battery pack Lo (B-517)	gic alarm cable (B-513)	DC drive cable (B-514)	Humidity sensor (B-530)			
4	5/	6				
	d-shaped K-type thermocouple (RIC-410)	K-type thermocouple for static surfaces (RIC-420)	L-shaped K-type thermocouple for static surfaces (RIC-430)			
		0				

*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)
*51 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:0.32mm, others:0.65mm
*9 Operating temperature range: -25 to +80°C

Between input channel terminals

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1 minute at 1000 Vp-p





