

GRAPHTEC

High-speed isolated 4-channel multifunction logger

midi **LOGGER** GL900-4

NEW



Voltage

Multifunction input on four isolated channels

Temperature

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

Humidity

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

Pulse

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

Logic

Can be used as an X-Y recorder

GL900 main unit specifications

Item	Description
No. of analog input ch.	4 ch
External input/output	Trigger input (1 channel), Logic input (4 channels) or Pulse input (4 channels), Alarm output (4 channels)
Sampling interval	10µs to 1 min
TIME/DIV	10 ms/DIV to 24 hour/DIV
Timer functions	Date and time, daily cycle, hourly cycle, off
Trigger functions	Type
	Condition
	Combination
	Mode
Alarm setting functions	Rising, Falling, Window In ^{*2} , Window Out ^{*2}
Alarm output ^{*1}	Number of channels: 4, Open collector output (5V, 10 kΩ pull-up resistance)
Pulse input ^{*1, *3}	RPM mode
	Count mode
	Inst. Mode
Calculation functions	Statistical calculations ^{*4} : Average, Peak, Maximum, Minimum, RMS (2 calculations can be set simultaneously)
Other functions	Search function, annotation input function
PC interface	Ethernet (10BASE-T/100BASE-TX), USB (High Speed supported) provided as standard
Ethernet functions	Web server function, FTP server function, NTP client function
USB function	USB drive mode (File transfer and deletion from internal GL900 memory)
Memory device	Internal
	External
Display screens	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°C when using batteries)
Withstand voltage	Between each input channel and GND: 1000 V p-p for one minute, between input terminals: 1000 Vp-p for one minute
Power supply	AC adapter
	DC input
	Battery pack ^{*6} Option
Power consumption	40 VA (when operating and charging battery with AC power)
External dimensions	232 x 150 x 80 mm (W x H x D), approx.
Weight (approx.)	1.0 kg (excluding AC adapter and battery)
Vibration-tested conditions	Equivalent to automobile parts Type 1 Category A classification (JIS standard)

Terminal block specifications

Item	Description
Input terminal type	Voltage
	Temperature
Input method	All channels isolated Imbalanced input Simultaneous sampling of all channels
Measurement ranges	Voltage
	Temperature
	Humidity
Input filter	Off, Line, 5 Hz, 50 Hz, 500 Hz
Measurement accuracy ^{*5} (23°C±5°C) When 30 minutes or more have elapsed after power was switched on Filter : Line GND : connected Standing upright Average values	Voltage
	Thermocouple
	Type
	R/S
	B
	K
	E
	T
	J
	N
	W
Reference contact compensation accuracy : ±1.0°C	
A/D converter	16 bits (out of which 14 bits are internally acknowledged)
Maximum permissible input voltage	Between + and - input terminals
	Between input channel terminals
	Between input channel terminal and GND terminal
	Between input channel terminal and GND terminal
Withstand voltage	Between input channel terminals

^{*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:0.32mm, others:0.65mm

^{*9} Operating temperature range: -25 to +80°C

Control software specifications

Item	Description
Supported OS	Windows 2000, Windows XP, Windows Vista (32-bit and 64-bit versions)
Functions	GL900 control, real-time data capture, data conversion
Setting range	Amplifier 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
Display information	Data conversion
	Binary, CSV
File conversion	Analog waveforms, logic waveforms, pulse waveforms, digital values
2-screen function (Zoom)	Data between cursors, All data
Display of statistics and history	Display of current and past data
	Display of maximum, minimum, and average values

Options and accessories

Product name	Model name	Specification
USB memory 2GB	B-550	2GB
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
Isolated BNC-BNC cable	RIC-142	
Isolated BNC-banana plug cable	RIC-143	
Alligator clip (small)	RIC-144	Connect to RIC-143
Alligator clip (Middle)	RIC-145	Connect to RIC-143
Grabber clip	RIC-146	Connect to RIC-143
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 thermocouple	RIC-410	1.1 m
K-type thermocouple for static surfaces	RIC-420	1.1 m
L-shaped K-type thermocouple for static surfaces	RIC-430	1.1 m
Ultrafine K-type thermocouple	ST-55K-TC-1.2M	Wire diameter 0.127, 0.5 x 0.7 200mm Junction cable 1m, 5 piece/pack

USB memory 2GB^{*6}
(B-550)



Battery pack ^{*6}
(B-517)



Logic alarm cable
(B-513)



DC drive cable
(B-514)



Humidity sensor ^{*9}
(B-530)



Safe probe
(RIC-141)



Isolated BNC-BNC Cable
(RIC-142)



Isolated BNC banana
plug cable
(RIC-143)



BNC-BNC cable
(RIC-112)



BNC banana plug cable
(RIC-113)



BNC alligator clip cable
(RIC-114)



Rod-shaped K-type
thermocouple
(RIC-410)



K-type thermocouple
for static surfaces
(RIC-420)



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



Ultrafine K-type thermocouple
(ST-55K-TC-1.2M)



Digital clamp meter specifications

Item	CM-211
Current	DC : 0 to 400A / 0 to 2000A AC : 0 to 400A / 0 to 2000A
Voltage	DC : 0 to 40V / 0 to 400V / 0 to 600V AC : 0 to 40V / 0 to 400V / 0 to 600V
Other	Frequency, Duty ratio, Pulse width



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medi LOGGER GL900

High-speed
Isolated 8-channel
multifunction logger



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RoHS Compliant model