

GRAPHTEC

High-speed isolated 8-channel multifunction logger
midi LOGGER

GL900

8 isolated channels & high speed simultaneous sampling



Voltage

Multifunction input on eight isolated channels

Temperature

High-speed simultaneous sampling
on eight 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

GL900 main unit specifications

Item	Description	
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	10μs to 1 min	
TIME/DIV	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 stops when a 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
	Combination	Input signal level: Level OR, Level AND, Edge OR, Edge AND
Mode	H (Rising), L (Falling), Window In*, Window Out*	
Alarm setting functions	Rising, Falling, Window In*, Window Out*	
Alarm output *1	Number of channels: 4, Open collector output (5V, 10 kΩ pull-up resistance)	
Pulse input*, *3	RPM mode	5 to 20 M RPM/F.S. (in steps of 1, 2, or 5)
	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 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	One million data points / Internal flash memory: Approx. 256 MB
	External	USB memory slot (High speed supported)*5
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	100 to 240 VAC, 50 to 60 Hz
	DC input	8.5 to 24 VDC
	Battery pack*6	Option
Power consumption	30 VA (when operating with AC power)	
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 parts Type 1 Category A classification	

Terminal block specifications

Item	Description		
Input terminal type	BNC connector		
Temperature	M3 screw type terminal board *7		
Input method	All channels isolated Unbalanced input Simultaneous sampling of all channels		
Measurement ranges	Voltage	20, 50, 100, 200, 500 mV; 1, 2, 5, 10, 20, 50, 100, 200, 500 V F.S., 1-5 V F.S.	
	Temperature	Thermocouples : K, J, E, T, R, S, B, N, W (WR5-26)	
	Humidity	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		
Measurement accuracy *8 (23°C±5°C)	±0.25% of F.S.		
When 30 minutes or more have elapsed after power was switched on	Thermocouple	Measurement temperature range Measurement accuracy	
Filter : Line GND : connected		R/S	0°C ≤ TS ≤ 100°C ±7.0°C 100°C < TS ≤ 300°C ±5.0°C R:300°C < TS ≤ 1600°C ±(0.05% of rdg +3.0°C) S:300°C < TS ≤ 1760°C ±(0.05% of rdg +3.0°C)
		B	400°C ≤ TS ≤ 600°C ±5.5°C 600°C < TS ≤ 1820°C ±(0.05% of rdg +3.0°C)
		K	-200°C < TS ≤ -100°C ±(0.05% of rdg +3.0°C) -100°C < TS ≤ 1370°C ±(0.05% of rdg +2.0°C)
		E	-200°C ≤ TS ≤ -100°C ±(0.05% of rdg +3.0°C) -100°C < TS ≤ 800°C ±(0.05% of rdg +2.0°C)
		T	-200°C ≤ TS ≤ 100°C ±(0.1% of rdg +2.5°C) -100°C < TS ≤ 400°C ±(0.1% of rdg +1.5°C)
		J	-200°C ≤ TS ≤ 100°C ±3.7°C -100°C < TS ≤ 100°C ±2.7°C 100°C < TS ≤ 1100°C ±(0.05% of rdg +2.0°C)
		N	0°C ≤ TS ≤ 1300°C ±(0.1% of rdg +2.0°C)
		W	0°C ≤ TS ≤ 2315°C ±(0.1% of rdg +2.5°C)
	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 input channel + and - terminals	20 mV to 1 V : ±30VDC 2 V to 500 V : ±500VDC	
	Between input channel terminals	60 Vp-p	
	Between input channel terminal and GND terminal	60 Vp-p	
Withstand voltage	Between input channel terminal and GND terminal	1 minute at 1000 Vp-p	
	Between input channel terminals	1 minute at 1000 Vp-p	

*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:0.32φ, others: 0.65φ

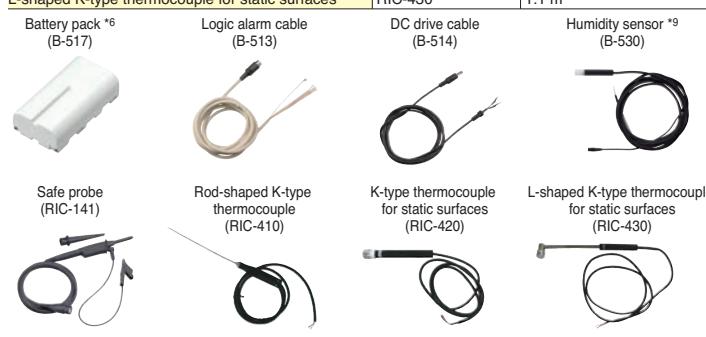
*9 Operating temperature range: -25 to +80°C

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	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
Display information	Analog waveforms, logic waveforms, pulse waveforms, digital values
File conversion	Data between cursors, All data
2-screen function (Zoom)	Display of current and past data
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 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



Digital clamp meter (incorporating output function) specifications

Item	CM-211	CM-114	CM-113 (Leak clamp)
Current	DC 0 to 400A /0 to 2000A AC 0 to 400A /0 to 2000A	0 to 400A /0 to 1000A 0 to 400A /0 to 1000A	
Voltage	DC ○ AC ○	○ ○	X X
Other	Frequency Duty ratio Pulse width	Frequency Duty ratio Pulse width	



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RoHS Compliant model

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ER040810 Vol.2