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DATASHEET

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WHY BUY WHEN YOU CAN HIRE

GRAPHTEC

midi LOGGER
GL800

Multi-channel measurement anytime, anywhere

Multifunction input; the number of channels can be expanded from the standard 20 to the maximum 200

Isolated input for all channels; vibration-resistant; outstanding, worry-free measurement performance

Direct data capture to a USB memory

Equipped with a bright, easy-to-read large-format TFT LCD

Long-term data capture for nine hours enabled when the battery is used

midi LOGGER GL800

Main Unit Specifications

Item	Description			
Number of analog input terminal units	1unit (20 ch) or Extension unit (max. 200 ch) Maximum 10 units or 200 ch when using with a PC			
Sampling interval *1	100 ms (10 ch) to 1 h			
Trigger function	Type	Start	(Data capture starts when a trigger is generated)	
		Stop	(Data capture stops when a trigger is generated)	
	Condition	Start	Off, Level, Alarm, Scheduled time, External	
		Stop	Off, Level, Alarm, Scheduled time, Elasped time, External	
Alarm function	Type	Analog, Logic, Pulse (AND and OR operation available)		
	Condition	Analog	H, L, Window In, Window Out	
		Logic	H, L at each channel	
		Pulse	H, L, Window In, Window Out	
Pulse / Logic input *2 *5	Selectable between Pulse and Logic, Number of channels : 4			
Pulse input range	Count mode	50 C, 500 C, 5 kC, 50 kC, 500 kC, 5 MC, 50 MC, 500 MC/F.S. (max. input 50 kHz)		
	Inst. Mode	50 C, 500 C, 5 kC, 50 kC, 500 kC, 5 MC, 50 MC, 500 MC/F.S. (max. input 50 kHz)		
	RPM mode	50 rpm, 500 rpm, 5 krpm, 50 krpm, 500 krpm, 5 Mrpm, 50 Mrpm, 500 Mrpm/F.S. (max. input 50 kHz)		
Alarm output *5	No. of channels	4		
	Output format	Open collector output (5V pull-up resistance 10 k ohm), 5 to 24V (100 mA or less)		
	Output conditions	Level judgement, Window judgement, Logic pattern judgement, Pulse judgement		
External trigger input *2 *5	1 ch			
Interface to PC	Ethernet (10BASE-T / 100BASE-TX), USB (Compatible with high speed)			
Data storage function	Measured data	Internal flash memory or USB memory directly		
	Other	Setting conditions and Screen hard copy can be saved into the internal memory or the USB memory		
Internal storage device	Internal flash memory : 12 Mbyte			
USB memory slot (Full speed)	Provided as standard			
Calculation function	Statistics calculation	Average, Peak, maximum, Minimum, RMS		
	Number of calculations	2 calculations can be set simultaneously		
Searching function	Searching the necessary point from captured data. Type : Level, Alarm, Logic, Pulse			
Display	Size	5.7 inch TFT color LCD		
	Displayed items	Waveforms + Digital values, Waveforms only, Digital values only		
Operating environment	Temperature : 0 to 45 °C (15 to 40 ∞C when operating by battery), Humidity : 5 to 85 % R.H.			
Power supply	AC adapter : 100 to 240V AC, 50/60 Hz			
	DC input : 8 to 24 V DC *3			
	Battery pack : Max. 2 batteries installable, 9 hours operation (when using under Graphtec specified condition) *3			
Power consumption	28 VA or lower (when operating with AC power)			
External dimensions (W x D x H) (approx.)	232 mm x 152 mm x 50 mm			
Weight (approx.)	990 g including a 20 channel input terminal unit *4			
Vibration resistance	Compatible with JIS Vibration testing methods for automobile Type 1 Class A-equivalent			
Certifications	CE, RoHS, China RoHS			

Input Terminal Unit Specifications

Item	Description		
Number of input channels	20 (maximum 200 channels by the expansion terminal unit)		
Type of input terminal	M3 screw type terminal		
Method	Scan All channels isolated, balanced input		
Measurement range	Voltage	20, 50, 100, 200, 500 mV, 1, 2, 5, 10, 20, 50, V, 1-5 V / F.S.	
	Temperature	Thermocouple : K, J, E, T, R, S, B, N, W (WRe5-26)	
		PT : Pt100, JPt100, Pt1000 (IEC751)	
	Humidity	0 to 100 % RH (Voltage 0 to 1 V conversion, when using optional B-530 humidity sensor is used)	
Input filter	Off, 2, 5, 10, 20, 40 (Moving average)		
Measurement accuracy	Voltage	+/-0.1 % of F.S.	
	Thermocouple	Measurement range	Accuracy
	R/S	0 ≤ TS ≤ 100 °C	± 5.2 °C
		100 < TS ≤ 300 °C	± 3.0 °C
		R : 300 < TS ≤ 1600 °C	± (0.05 % of rdg + 2.0 °C)
		S : 300 < TS ≤ 1760 °C	± (0.05 % of rdg + 2.0 °C)
	B	400 ≤ TS ≤ 600 °C	± 3.5 °C
		600 < TS ≤ 1820 °C	± (0.05 % of rdg + 2.0 °C)
	K	-200 ≤ TS ≤ -100 °C	± (0.05 % of rdg + 2.0 °C)
		-100 < TS ≤ 1370 °C	± (0.05 % of rdg + 1.0 °C)
	E	-200 ≤ TS ≤ -100 °C	± (0.05 % of rdg + 2.0 °C)
		-100 < TS ≤ 800 °C	± (0.05 % of rdg + 1.0 °C)
	T	-200 ≤ TS ≤ -100 °C	± (0.1 % of rdg + 1.5 °C)
		-100 < TS ≤ 400 °C	± (0.1 % of rdg + 0.5 °C)
	J	-200 ≤ TS ≤ -100 °C	± 2.7 °C
		-100 < TS ≤ 100 °C	± 1.7 °C
		100 < TS ≤ 1100 °C	± (0.05 % of rdg + 1.0 °C)
	N	0 ≤ TS ≤ 1300 °C	± (0.1 % of rdg + 1.0 °C)
	W	0 ≤ TS ≤ 2000 °C	± (0.1 % of rdg + 1.5 °C)
	PT	Pt100 -200 to 850 °C (FS = 1050 °C)	± 1.0 °C
		JPt100 -200 to 500 °C (FS = 700 °C)	± 0.8 °C
		Pt1000 -200 to 500 °C (FS = 700 °C)	± 0.8 °C

* If the reference junction compensation is internal, add ± 0.5 °C to each of the above values.

A/D converter	16 bit (out of which 14 are internally acknowledged)
Maximum input voltage	60 Vp-p (Between ±)
	60 Vp-p (Between input terminals)
	60 Vp-p (Between input terminal and chassis)
Withstand voltage	350 Vp-p (between input terminal and GND) 1 minute

*1 The available number of channels varies according to the sampling interval.
*2 Max. input voltage : 24 V, Input threshold voltage : approx. 2.5 V, Hysteresis approx. 0.5 V (+2.5 to 3 V)
*3 Option
*4 Excluding the battery and AC adapter
*5 Logic/Alarm cable (B-513) is required

GL800 PC software specifications

Item	Description
Compatible OS	Windows 2000/XP/Vista
Function	Control of main unit, Realtime data capture, File conversion
Main unit settings	Input settings, memory settings, alarm settings, trigger settings, report settings, others
Maximum number of controlable units	Either 10 units or 500 channles
Captured data	Realtime data, Internal memory data, USB menory data
Display	Analog waveforms, logic waveforms, pulse waveforms, digital values
Display mode	Y-T waveform view, X-Y waveform view, Digital view, Meter view, Report view
Monitor functions	Alarm monitor enables sending of email to the specified address
File conversion	Data conversion between cursors/All data to CSV file format, batch conversion function
Direct Excel function	Max. 1 sec sampling data can be saved in to Excel file.
Statistcs calculation, report	Maximum, minimum, avarage data during measurement
Reprot function	Automatic creation of daily or monthly files

Standard Accessories

Item	Description	Q'Ty
Quick Start Guide		1
CD-ROM	User's manual, Application software	1
AC Adapter	100 to 240 V AC 50 / 60 Hz with specified type of power cord	1

Options

Item	Model
Extension terminal base kit	B-537
20 ch extension terminal set	B-538
Battery pack	B-517
Humidity sensor	B-530
Logic / Alarm cable	B-513
DC power cable	B-514
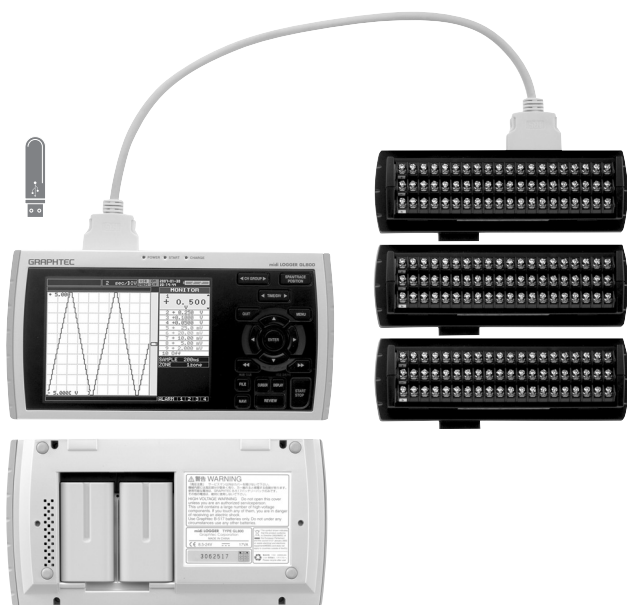
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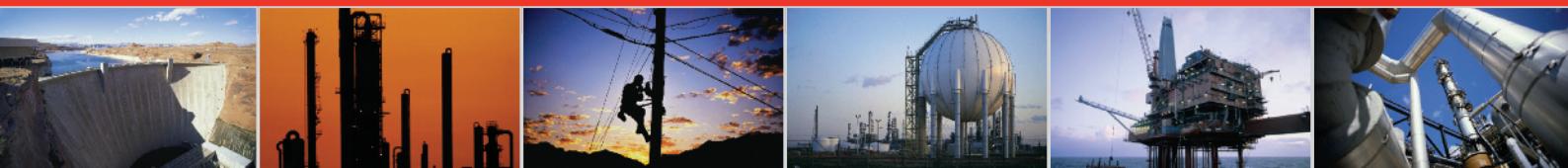
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