

Isolated/Universal Input, Standalone Multi-Channel Datalogger

midi LOGGER GL840-M / GL840-WV / GL240



- Wireless LAN capability for remote monitoring and remote datalogging system
 - Extended memory capacity using SD memory card
- Maximum sampling interval of up to 10ms

Setting New Heights in Data Recording





NEW Multi-Input Model midi LOGGER GL840-M



10-Channel NEW **Portable Model** midi LOGGER GL240



www.graphtecamerica.com

midi LOGGER GL840series & GL240







GL840 series

GL240

Setting New Industry Standards for It's Class

Accommodates a wide variety of measurements

Multifunction analog input ports

Contains a highly isolated input mechanism which ensures that signals are not corrupted by noise from other channels. The GL840/240's inputs are suitable for combined measurements from voltage, temperature, humidity, logic, and pulse signals.

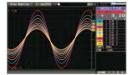
4 channels of Logic/Pulse inputs

Supports 4-channel logic or pulse signal inputs. Pulse mode allows cumulative, instant, or rotational values for industrial measurement capability with speed and flow.

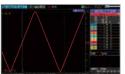
Voltage Ranges from 20mV to 100V	Pulse	4 channels* Accumulating, Instant or RPM
Thermocouple type: R, S, B, K, E, T, J, N, W RTD types (for GL840 only): Pt100, Pt1000, JPt100	Logic	4 channels*
Humidity 0 to 100%RH - using optional sensor (B-530)		tional input/output cable (B-513). Pulse or Logic input.

Large easy-to-read 7-inch wide color LCD(4.3-inch in the GL240)

Carries a clear 7-inch wide TFT color LCD screen (WVGA: 800 x 480 dots) for the GL840, and 4.3-inch wide LCD screen (WQVGA: 480 x 272 dots) for the GL240. Monitoring data can be displayed in waveform or digital form. Parameter settings can be displayed on the screen.



Waveform display (Analog + Digital)





+ 50.00



Bar chart (Integrated data in a stacked bar chart)

Dual display (Current + Past)

Useful functions

Displays the data by a bar chart

The integrated data that is measured by the digital sensors can be displayed by a bar chart in the GL840 series. Multiple bar chart types are available. Data can also be displayed as a line chart when the GS-TH (Temp/Humidity), GS-DPA-AC with GS-ACxxx (AC current/power) or GS-LXUV (Illuminance/UV) digital sensor is used. The digital sensor can be connected to the GL840 or the GL100-WL is used combining with the GL840/GL240. * Firmware ver.1.10 or later.

Alarm output function

Alarm signals can be placed using the four channel alarm output ports based on set conditions for each channel. *

 * Input/output cable (B-513 option) is required to connect the alarm output ports to external buzzer/light mechanism.

USB drive mode

USB drive mode function enables data to be transferred to the PC from GL840/GL240 by drag & drop feature.

Maximum sampling interval of up to 10ms

Provides faster sampling rates for voltage measurements. Up to 10ms sampling speed is achievable when limiting the number of channels in use.

Model	Samplir	ng interval	10ms	20ms	50ms	100ms	200ms	500ms	1s	2s
woder	Number	of channel	1	2	5	10	20	50	100	200
GL840	Measuring	Voltage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GL040	weasuring	Temperature	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
GL240	Managerian	Voltage	Yes	Yes	Yes	Yes	Yes(10ch)	Yes(10ch)	Yes(10ch)	Yes(10ch)
GL240	measuring	Voltage Temperature	N/A	N/A	N/A	Yes	Yes(10ch)	Yes(10ch)	Yes(10ch)	Yes(10ch)

* This chart is applicable when the captured data is saved in the GBD binary file format. Limited sampling speed is available when digital sensors and GL100-WL are used as a remote monitoring device.

Built-in 4GB Flash memory with SD card support

The new GL series enables reliable long term measurement with its built-in 4GB flash memory and SD card slot for external storage devices. The SD card slot supports an SDHC memory card of up to 32GB.

Captur	apturing time* (When all 20 or 10 analog channels are being used with Logic/Pulse inputs turned off.)								
Model	Sampling	10ms	50ms	100ms	200ms	500ms	1s	10s	
	GBD format	31 days	77 days	95 days	108 days	270 days	over 365	over 365	
(20ch)	CSV format	3 days	11 days	16 days	21 days	54 days	109 days	over 365	
GL240	GBD format	41 days	88 days	103 days	207 days	over 365	over 365	over 365	
(10ch)	CSV format	3 days	11 days	16 days	36 days	91 days	182 days	365 days	

* Figures are approximate. File size of captured data is 2GB in GBD or CSV file format on this chart. Sampling interval is limited by the number of channels in use. (10ms: 1ch, 50ms: 5ch, 100ms: 10ch) Limited sampling speed is available when digital sensors and GL100-WL are used as a remote monitoring device.

Ring capture function

The most recent data is saved when the memory is configured in ring memory mode. (Number of capturing data is 1000 to 2000000 points)

Relay capture function

Data is continuously saved to multiple files up to 2GB without losing any data until capturing is stopped when the memory is configured in the relay mode.

Hot-swapping the SD memory card

SD card can be replaced during data capturing when the sampling interval is 100ms or slower.

 * When the wireless sensor (GL100-WL) is connected, the sample interval among 10, 20, and 50ms cannot be replaced during recording.

Navigation function

Simple to use navigation screen allows setting operation for measurement and wireless LAN adapter in GL840.

3 Types of Power Source

Choose from AC power supply, DC supply* or the rechargeable battery pack.* * DC power drive cable (B-514) and battery pack (B-569) are optional accessories.

Networking features

Web & FTP server function

GL840/GL240 can be controlled externally via a network on the WEB browser, which also supports monitoring and transfer of signals and captured data. FTP client function

Captured data is periodically transferred to the FTP server for backup. NTP client function

The clock on the GL840/Gl240 is periodically synchronized with the NTP server. * The GL840/Gl240 needs to be connected to a LAN environment using the available Ethernet/WLAN ports.

GL840 expands to two models for application specific use

High Voltage Withstand Model

Suitable for stacked high voltage battery application, or high-preci-

sion temperature measurement.

midi LOGGER GL840-WV

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Multi-Input Model midi LOGGER GL840-M



Suitable for temperature measurement with multiple channels

Expandable up to 200 channels

Standard configuration has 20 analog input channels. It is expandable to 200 channels by adding the optional 20 channel extension terminal base unit (B-566) and input terminal units (B-564 or B-565).

- The following shows how a standard configuration is expanded to a 40 channel configuration.
- 1. Terminal unit is removed from the main 2. Extension terminal base unit (B-566) body of the GL840. connects to the GL840 using the external cable (B-567)



3. Terminal unit snaps onto the extension 4. The combined extension terminal terminal base unit (B-566).



base set (B-566) and additional input terminals (B-564 or -565) are daisy chained together.



nfiguration for additional channels

Number of channels	20 channels	40 channels	100 channels	200 channels			
GL840 unit (GL840-M or GL840-WV)	1 set	1 set	1 set	1 set			
Connection cable (B-567-05 or -20)	N/A	1 pc	1 pc	1 pc			
Terminal base (B-566)	N/A	2 sets	5 sets	10 sets			
Input terminal (B-564 or B-565)	N/A	1 set	4 sets	9 sets			

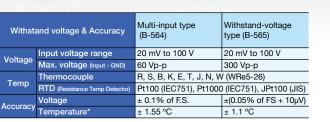
* Input terminal blocks for the B-564 and B-565 can be mixed together for combined configurations. However, the maximum voltage and accuracy rating for the setup will be limited to the rating of the B-564

Offers longer cable for the input terminals

Input terminal blocks can be connected directly (in daisy chain), or using the B-565 cable(s). This allows the input terminals to be placed in separate locations according to the need of the application. The input terminal and the GL840 main

body can be extended by using an extended connection cable.

* If the signal is affected by noise, it may be required to use a slower sampling.



Accuracy rating for K-type thermocouple at 100°C includes reference junction compensation. Accuracy varies by temperature levels and thermocouple types

Three types of input systems enable measurement of various signals

Along with the basic analog signal, Logic/Pulse, and digital sensors can be all connected to monitor a variety of measurements



Support digital sensors

Digital sensors and input terminal/adapters for the GL100 connect to the GL840 directly.



Supports up to two AC current sensors ** Allows only one extension cable per port.

Dual port adapter connects up to two sensors for simultaneous interface



- Temp/Humidity & Illuminance/UV - Temp/Humidity & Carbon Dioxide - Illuminance/UV & Carbon Dioxide

High performance software with useful functions for the PC (GL100_240_840-APS)

Supports GL840, GL240, GL100



PC

(Software)

Up to 10 units of GL840, GL240 and GL100 can be connected to 1 PC simultaneously. Up to 1000 channels are supported. Controls settings for GL840, GL240, GL100

Various measurement screen

Displays data in Y-T waveform, digital monitoring, statistical calculation result, bar chart*. * Software ver.1.10 or later. The direct-Excel function enables captured data to be written directly to an Excel file



File operation

Data captured in multiple files can be merged into a single file. Using the combine function, data can be imported as a new channel overlaying on top of each other. The bind function connects the data in a time axis. When using the relay capture mode, the bind feature will append multiple files together into one large, continuous file.

Useful functions

Scheduling function Create a schedule for your monitoring to start and stop at selected time, and set an automatic measurement schedule.

Group function

Multiple units can be managed, such as controlling start or stop simultaneously. Data captured by each unit is saved in a single file.

Data format conversion





Converts the GBD (Graphtec Binary Data) format to CSV format. The file size is reduced using the compression function saving a value at particular time point of a specified interval. Or, it will save the average, maximum, or minimum values from the specified time interval as the highlighted values.







Wireless Measurement Using WLAN (option)

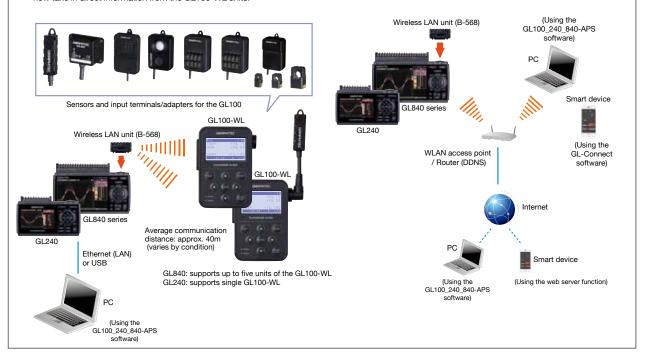
Wireless LAN option enables the wireless communication with other devices. Connects to the GL100-WL wireless unit remotely when set as an access point. When set as a station, PC and smart devices will be able to access the WLAN unit directly.

Combining GL100-WL and GL240/GL840

GL100-WL can now be connected to the GL840 or GL240 as a remote sensor using the WLAN feature. You can expand your measurement variety by adding the sensors available on the GL100-WL unit. The measured value will then appear in a single file along with the measurement values from the GL840/GL240 main inputs. GL840/GL240 will now take in direct information from the GL100-WL units.

Communication with PC or Smart device

GL840 and GL240 units can be connected to a LAN (Local Area Network) via a WLAN access point. Measured data can be monitored and controlled via a PC or a smart device using the application software. Configuration of GL840/GL240 can be set via the network. Available functions vary by the network configuration.



High quality performance and measurement software with useful functions for PC & smart devices



unit specificat		
	Description	
	GL840-M	GL840-WV
log input channels	20 channels in standard configuration, E	
log input terminals	Up to 10 terminals (20 channels / termina	al), standard config:1
input terminal	Multi-input type, Withstand-voltage type	
sensor	1 port for the sensor/input terminal/adap	ter of the GL100
Input (*2)	Trigger or Sampling (1 channel), Logic/Pu	ulse (4 channels)
Output (*3)	Alarm (4 channels)	
val	10 ms to 1 hour (10ms to 50ms: voltage or	nly) (*4), External signal
vaveform display	1 sec. to 24 hour /division	
Trigger action	Start or stop capturing data by the trigge	r
Repeat action	Off, On (auto rearmed)	
Trigger source	Start: Off, Measured signal, Alarm, Extern	
		nal, Clock, Week or Time
Condition Setting	Combination: AND / OR	
	Analog signal: Rising (High), Falling (Low), Window-in, Window-out
	Logic signal: Pattern (combination of eac	h input signal in high or low)
	Pulse (number of count): Rising (High), Fa	alling (Low), Window-in, Window-out
Alarm output	Outputs a signal when alarm condition or	ccurs in the input signal (*5)
Rotation count	Counts the number of pulses per samplir	ng interval and converts to rpm
(RPM) mode	(rotations per minute), Number of pulses	for one rotation can be set to
	50, 500, 5000, 50k, 500k, 5M, 50M, 500M	/l rpm/F.S. (rpm./Full Scale)
Accumulating	Accumulates the number of pulses from	the start of measurement
count mode	50, 500, 5000, 50k, 500k, 5M, 50M, 500M	A C/F.S. (Counts/Full Scale)
Instant count	Counts the number of pulses per samplin	ng interval
mode	50, 500, 5000, 50k, 500k, 5M, 50M, 500M	A C/F.S. (Counts/Full Scale)
Between channels	Addition, Subtraction, Multiplication, and	Division for analog input
Statistical	Select two calculations from Average, Pe	ak, Maximum, Minimum, RMS
n	Search for analog signal levels, values of	logic or pulse or alarm point
	in captured data	
;	Ethernet (10 BASE-T/100 BASE-TX), USB	(Hi-speed), WLAN (using B-568 option)
Internal	Built-in 4GB Flash Memory (*6)	
External	One SD card slot (Supports SDHC memo	ory card, up to 32GB) (*7)
Saved contents	Captured data, Setting conditions, Scree	n copy
le	Mode: Normal, Ring, Relay	
	Ring: Saves most recent data (Number of c	apturing data: 1000 to 2000000 points) (*8)
	Relay: Saves data to multiple files without	losing data until dada capturing is stopped
	Replays captured data that was saved in	the GL840 (in GBD or CSV format)
ering unit) function	Replays captured data that was saved in Measured value can be converted to spe	the GL840 (in GBD or CSV format)
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• ,	Measured value can be converted to spe • Analog voltage: Converts using four ref • Temperature: Converts using two reference • Pulse count: Converts using two reference	the GL840 (in GBD or CSV format) cified engineering unit erence points (gain, offset) nce points (offset) nce points (gain)
ering unit) function data capture	Measured value can be converted to spe • Analog voltage: Converts using four refe • Temperature: Converts using two refere	the GL840 (in GBD or CSV format) cified engineering unit erence points (gain, offset) nce points (offset) nce points (gain)
• ,	Measured value can be converted to spe • Analog voltage: Converts using four ref- • Temperature: Converts using two refere • Pulse count: Converts using two refereet • Displaying past data (using dual display • Hot-swapping the SD memory card	the GL840 (in GBD or CSV format) cified engineering unit erence points (gain, offset) nce points (offset) nce points (gain)
• ,	Measured value can be converted to spe Analog voltage: Converts using four ref. Temperature: Converts using two referent Pulse count: Converts using two referent Displaying past data (using dual display Hot-swapping the SD memory card Saving data in between cursors	the GL840 (in GBD or CSV format) cified engineering unit erence points (gain, offset) nce points (offset) nce points (gain) r mode (Current + Past data))
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	val vaveform display Trigger action Repeat action Repeat action Trigger source Condition Setting Alarm output Rotation count Rotation count (RPM) mode Instant count mode Instant count mode Between channels Statistical n Internal External	GL840-M log input terminals 20 channels in standard configuration, El log input terminals log input terminals Up to 10 terminals (20 channels / terminal sensor input (7) Trigger or Sampling (1 channel), Logic/PV output (3) Alarm (4 channels) val 10 ms to 1 hour (10m sto 50ms: voltage or vaveform display rigger action Start or stop capturing data by the trigge Repeat action Repeat action Off, On (auto rearmed) Condition Setting Combination: AND / OR Condition Setting Combination: AND / OR Alarm output Output (20, 500, 500, 500, 500, 500, 500, 500, 5

GI 840 Main unit specificatio

Item		Description		
Model name		GL100_240_840-APS		
Supported OS		Windows 10, 8.1, 8, 7, Vista (32/64-bit edition)		
Supported dev	/ice	GL840 (USB, Ethernet, WLAN), GL240 (USB, WLAN), GL100 (USB, WLAN)		
Functions		Control the GL series, Real-time data capture, Replay data, and Data format conversion		
Supported uni	ts & channels	Up to 1000 channels total, Up to 4 groups (number of units is limited by model)		
Settings contri	ol	Input condition, Capturing condition, Trigger/Alarm condition, Report, etc.		
Capturing data	Saved to PC	Saves captured data in real time (in GBD binary or CSV format)		
	Saved to GL unit	Saves to the SD memory card (in GBD binary or CSV format)		
Displayed info	rmation	Y-T waveform, Digital values, Report, X-Y graph (specified period of data, data		
		reply only), Two displays for the current and past data, Statistical calculation, and		
		Integrated value in a bar chart		
File operation		Converting data format to CSV from GBD binary, merge multiple data files		
		in the time axis or as an additional channel		
Warning functi	ion	Send e-mail to the specified address when the alarms occur		
Statistical calc	ulation	Maximum, Minimum, and Avarage during data capturing		
Report functio	n	Creates the daily or monthly report automatically		

Item	Description
Model name	GL-Connect
Supported OS	Android 4.1 to 4.4, iOS 7/8
Supported device	GL840 (WLAN), GL240 (WLAN), GL100 (WLAN)
Functions	Control the GL series, Display measured data in waveform or digital value
Supported units	Up to 10 units
Settings control	Start/Stop, Sampling interval
Capturing data	Saves captured data in the GL main body (data cannot be saved in the smart device)
Displayed information	Data captured in real time by digital value, Replay the data stored in the GL body by the wavefor

Wireless LAN unit (option)	specifications
Item	Description
Model number	B-568
Supported device	GL840, GL240
Communication method	Wireless communication (using radio waves in the 2.4GHz band)
Supported WLAN system	IEEE802.11b/g/n
	WPS: Push button or PIN method
	Security protocols: WEP64, WEP128, WPA-PSK/WPA2-PSK, AKIP/AES
	Communication distance: Approx. 40m (depending on the conditions of radio
	communication)
Installed location	Attaches to the SD card slot on the GL840/GL240 (*7)
Function	Access Point mode: Communicate with the GL100-WL as a remote sensor
	(captured data in the GL100-WL is transferred to GL840/GL240)
	Station mode: Communicate with PC or Smart device (control GL840/GL240 and
	transfer the data from GL840/GL240)
Connected number of GL100-WL	GL840: Up to 5 units of the GL100-WL
	GL240: 1 unit of the GL100-WL

	umber		Description GL840-M, Input terminal B-5		nput terminal B-565	
Input me Type of i		arminal	All channels isolated balance Screw terminal (M3 screw)	d input (*12), Scans chan	nels for sampling	
Measure		Voltage	20, 50, 100, 200, 500 mV, 1,	, 5, 10, 20, 50, 100 V, an	d 1-5V F.S. (Full Scale)	
range		Thermocouple	Type: K, J, E, T, R, S, B, N, V			
		RTD (Resistance	Range: 100, 500, 2000 °C (* Type: Pt100 (IEC751), Pt1000			
		Temperature Detector)	Range: 100, 500, 2000 °C (*			
		Humidity	0 to 100 % RH - using the h			
Filter Measure	ement :	accuracy (*14)	Off, 2, 5, 10, 20, 40 (moving average in selected number)			
	tage		± 0.1% of F.S. (Full Scale)	± (0.05% of F		
		ure (Thermocouple)				
	Туре	(TS: Temp Sense)	Measurement accuracy	Measuremen	t accuracy	
	R		± 5.2 °C	± 4.5 °C		
		100 < TS ≤ 300 °C	± 3.0 °C	± 3.0 °C		
	s		± (0.05% of rdg. + 2.0 °C) ± 5.2 °C	± 2.2 °C ± 4.5 °C		
		100 < TS ≤ 300 °C	± 3.0 °C	± 3.0 °C		
	В	300 < TS ≤ 1760 °C 400 ≤ TS ≤ 600 °C	± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	± 2.2 °C ± 3.5 °C		
	Б		± (0.05% of rdg. + 2.0 °C)	± 0.5 °C		
	К	-200 ≤ TS ≤ -100 °C	± (0.05% of rdg. + 2.0 °C)	± 1.5 °C		
	E		± (0.05% of rdg. + 1.0 °C) ± (0.05% of rdg. + 2.0 °C)	± 0.8 °C ± 1.0 °C		
	-		± (0.05% of rdg. + 1.0 °C)	± 0.8 °C		
	Т		± (0.1% of rdg. + 1.5 °C)	± 1.5 °C		
	J	-100 < TS ≤ 400 °C -200 ≤ TS ≤ -100 °C	± (0.1% of rdg. + 0.5 °C)	± 0.6 °C ± 1.0 °C		
	5	-100 < TS ≤ 100 °C		± 0.8 °C		
		$100 < TS \le 1100 \ ^{\circ}C$	± (0.05% of rdg. + 1.0 °C)	± 0.6 °C		
	N	-200 ≤ TS < 0 °C 0 ≤ TS ≤ 1300 °C	± (0.1% of rdg. + 2.0 °C) ± (0.1% of rdg. + 1.0 °C)	± 2.2 °C ± 1.0 °C		
	W	0 ≤ TS ≤ 1300 °C 0 ≤ TS ≤ 2000 °C	± (0.1% of rdg. + 1.5 °C)	± 1.8 °C		
	R.J.C.		± 0.5 °C	± 0.3 °C		
		ure (RTD) (*16) Measurement range	Measurement accuracy	Measuremen	t accuracy	
	., 20	(TS: Temp Sense)				
	Pt100	-200 ≤ TS ≤ 100 °C	± 1.0 °C	± 0.6 °C		
		100 < TS ≤ 500 °C 500 < TS ≤ 850 °C		± 0.8 °C ± 1.0 °C		
	Pt1000	$-200 \le \mathrm{TS} \le 100~^{\circ}\mathrm{C}$	± 0.8 °C	± 0.6 °C		
	IDM 00	100 < TS ≤ 500 °C		± 0.8 °C		
	JPt100	-200 ≤ TS ≤ 100 °C 100 < TS ≤ 500 °C	± 0.8 °C	± 0.6 °C ± 0.8 °C		
VD con	verter		Sigma-Delta type, 16 bits (eff		solution: 1/40000 of the measuring full range	
Maximu		Between	20 mV to 2 V range: 60 Vp-p,			
nput vo	itage	(+) / (-) terminal Channels ((-) / (-))	5 V to 100 V range: 110 Vp-p 60 Vp-p	600 Vp-p	600 Vp-р 300 Vp-р	
		Channel / GND	60 Vp-p			
	lto a o			300 Vp-p		
(withstar *1. Inpu *2. Inpu • Vc • Sie • Th *3. Out *4. Min *5. Out *6. The Plea	nd) ut/Outp ut sign bltage r gnal ty nreshol tput sig faximu bltage: himum tput po e built-i ase ref	al; range: Up to 24V (cc pe: Voltage, Open c d: Approx. + 2.5 V (nal: Open collector m rating of the outp Max. 30V, • Current interval varies by nu rt can be specified n Flash memory is a er to the website foi	350 Vp-p (1 minute) 350 Vp-p (1 minute) tion B-513) is required to con smmon ground) ollector, Contact (relay) logil-up to 5V yo 1002 resist ut transistor> Max. 0.5A, • Collector dissip mber of channels used. n each input channel. wailable for units with serial n more information.	600 Vp-p 2300 Vrms A ect the signal. to 3V)) r) ttion: Max. 0.2W imbers C604xxxxx or late	ər.	
withstar 1. Inpu 2. Inpu 4. Non 4. Min 5. Out 4. Min 5. Out 6. The Plea 7. SD 8. Size 9. Disp disp be e 10. Ratt be in 11. Exc 12. The 13. If the can 14. Sub	nd) ut/Output sign gnal ty rreshol tput sign faximu bitage: imum tput poo b built-imum tput poo tput poo	Channel / GND vut cable for GL (op al; vange: Ublage, Open c d: Approx. + 2.5 V(pai: Open collector m rating of the outp Max. 30V Current interval varies by nu rt can be specified n Flash memory is a re to the website tool website of the outp re and cannot be u capture data will b varia can be specified ode is switched eve channel number ca de from the point of der maximum powe reged. AC adapter and bat at 'b' for using the diffications of the tem use up to the specifi the following cond the proversite is 23 °	350 Vp-p (1 minute) 350 Vp-p (1 minute) ition B-513) is required to con mmon ground) ollector, Contact (relay) Hysteresis: Approx. 0.5V (25) (pull-up to 5V by 10kQ resistu ut transistor- Max. 0.5A, · Collector dissig mber of channels used. ne ach input channel. waliable for units with serial n more information. sed on the second slot while l limited to 1/3 of available m y time the dedicated key is p n be specified. In the wavefor the next displayed data. r consumption using the AC a tery pack. RTD is connected each other parature sensor is lesser or g cations of the sensor. tions:	eou Vp-p 2300 Vrms A ect the signal. to 3V() r) tion: Max. 0.2W imbers C604xxxxx or lath ne wireless LAN unit (opt mory. Essed. In magnified digi m display mode, the cha dapter, with LCD display across all channels. eater than the selected n	r. on B-568) is used. ial value mode, the ging of the time scale wil on, and battery pack(s)	
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12. Inputs vVc • SiSi • Th • Vc • Vc • Vc • Vc • Vc • Vc • Vc • Vc	nd) tut/Outk tut/sign blage to gaal ty treshol blage. tasimu tas	Channel / GND Unit cable for GL (op al; (part) (pa	350 Vp-p (1 minute) 0llector, Contact (relay) Yysteresis: Approx. 0.5V (25) (mill, up to SV by 10k0 resistu Wax. 0.5A, - Collector dissig mber of channels used. ne ach input channel. wailable for units with serial n more information. sed on the second slot while e admits with serial n more information. sed on the second slot while no the specified. In the wavefor the next displayed data. r consumption using the AC a tery pack. RTD is connected each other pactians of the sensor. to c: 5 °C. have elapsed after power ha sec, using 20-channel in GL8 d to ground. B-566 Base u B-567 Cable 1 B-568 WuAN B-568 WuAN B-568 Base	E00 Vp-p 2300 Vrms A ect the signal. to 3V() r) tion: Max. 0.2W imbers C604xxxxx or lath e wireless LAN unit (opt mory. An and the selected n mory. across all channels. eater than the selected n turned on. O-M and 10-channel in G or K type and 0.65mm c imout terminal, withstand-h it for input terminal, withstand-h it for input terminal and B-8 connect GL840 and B-3 iconnect GL840 iconnet GL840 iconnet GL840 iconne	r. on B-568) is used. tal value mode, the ging of the time scale will on, and battery pack(s) neasurement range, GL84 L840-WV. liameter in other types. gh-voltage type 4 or 566) 566, 50 cm long 666, 2 m long 666, 2 no long 666, 2 m long 666, 2 m long 10, 30 kold-to-order 10, build-to-order 10, build-to-order	

	CO2 measurement, cable 20cm long
	Acceleration and temperature measurement, cable 20cm long
	Temp measurement (using a Thermistor), cable 20cm long
Г-4Р	Temperature sensor (-40 to 105 °C), 3m long, 4pcs/set
F-4P	Temperature sensor (-40 to 120 °C), 3m long, 4pcs/set
AC	Current measurement (using a CT), cable 20cm long
A	Current sensor (CT) 50A, cable 20cm long
0A	Current sensor (CT) 100A, cable 20cm long
0A	Current sensor (CT) 200A, cable 20cm long
	Voltage or Temperature (using a thermocouple), cable 20cm long
	Extension cable for the sensor/terminal/adapter module, 1.5m long
	Connect up to 2 sensor modules

		Description			
	alog input channels				
External input/		Trigger or Sampling (1 channel), Logic/Pulse (4 channels)			
output (*1)	Output (*3)	Alarm (4 channels)			
Sampling inter		10 ms to 1 hour (10ms to 50ms: voltage only) (*4), External signal			
Time scale of	waveform display	1sec. to 24 hour /division			
Trigger,	Trigger action	Start or stop capturing data by the trigger			
Alarm function	Repeat action	Off, On (auto rearmed)			
	Trigger source	Start: Off, Measured signal, Alarm, External, Clock, Week or Time			
		Stop: Off, Measured signal, Alarm, External, Clock, Week or Time			
	Condition Setting	Combination: OR or AND			
	-	Analog signal: Rising (High), Falling (Low), Window-in, Window-out			
		Logic signal: Pattern (combination of each input signal in high or low)			
		Pulse (number of count): Rising (High), Falling (Low), Window-in, Window	-out		
	Alarm output	Outputs a signal when alarm condition occurs in the input signal (*5)			
Pulse input	Rotation count	Counts the number of pulses per sampling interval and converts to rpm			
function	(RPM)	(rotations per minute), Number of pulses for one rotation may be set to			
		50, 500, 5000, 50k, 500k, 5M, 50M, 500M rpm/F.S. (rpm./Full Scale)			
	Accumulating	Accumulates the number of pulses from the start of measurement			
	count	50, 500, 5000, 50k, 500k, 5M, 50M, 500M C/F.S. (Counts/Full Scale)			
	Instant count	Counts the number of pulses per sampling interval			
		50, 500, 5000, 50k, 500k, 5M, 50M, 500M C/F.S. (Counts/Full Scale)			
Calculation	Between channels	Addition, Subtraction, Multiplication, and Division for analog input			
function	Statistical	Select two calculations from Average, Peak, Maximum, Minimum, RMS			
Search functio		Search for analog signal levels, values of logic or pulse or alarm point			
		in captured data			
nterface to PC	5	USB (Hi-speed), WLAN (using B-568 option)			
Storage	Internal	Built-in 4GB Flash Memory (*6)			
device	External	One SD card slot (Supports SDHC memory card, up to 32 GB) (*7)			
	Saved contents	Captured data, Setting conditions, Screen copy			
Capturing mod		Mode: Normal, Ring, Relay			
		Ring: Saves most recent data (Number of captured data: 1000 to 2000000	noints) (
		Relay: Saves data to multiple files without losing data until data capturing i			
Replay Data	-	Replays captured data that was saved in the GL240 (in BGD or CSV form			
	eering unit) function				
ocaning (Engine	sering unity function	Analog voltage: Converts using four reference points (gain, offset)			
		Temperature: Converts using two reference points (offset)			
		Pulse count: Converts using two reference points (onset)			
	data anatima				
Action during	data capture	Displaying parst data (using dual display mode (Current + Past data))			
		Hot-swapping the SD memory card			
		Saving data in between cursors			
Display (LCD)		4.3-inch TFT color LCD (WQVGA: 480 x 272 dots)			
	Language	English, French, German, Chinese, Korean, Russian, Spanish, Japanese			
	Information (*9)	Waveform in Y-T with digital values, Waveform only, Digital value, Digital values	6		
		and statistics values, Bar chart			
Operating env	ironment	0 to 45 °C, 5 to 85 % RH (non condensed)			
		(When operating with battery pack 0 to 40 °C, charging battery 15 to 35			
Power source	AC adapter	100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard acce	essory)		
	DC power	8.5 to 24 V DC (DC drive cable (option B-514) is required)			
	Battery pack	Mountable battery pack (battery pack (option B-569): 7.2V DC, 2900mAh	1)		
	notion (*10)	Max. 36 VA			
Power consun		Approx.188 x 117 x 42 mm (Excluding projections)			
	nsions (W x D x H)				
External dimer		500 g			
External dimer Weight (*11)	nsions (W x D x H)	500 g			
External dimer Weight (*11) Software sj		500 g r PC			
External dimer Weight (*11) Software sj Item	nsions (W x D x H)	500 g r PC Description			
External dimer Weight (*11) Software sp Item Model name	nsions (W x D x H) pecifications for	500 g r PC Description GL100_240_840-APS			
External dimer Weight (*11) Software sp Item Model name Supported OS	nsions (W x D x H) pecifications for	500 g r PC Description GL100_240_840-APS Windows 10, 8.1, 8, 7, Vista (32/64-bit edition)	AD.		
External dimer Weight (*11) Software sp Item Model name Supported OS Supported dev	nsions (W x D x H) pecifications for	500 g r PC Description GL100_240_840-APS Windows 10, 8.1, 8, 7, Vista (32/64-bit edition) GL840 (USB, Ethernet, WLAN), GL240 (USB, WLAN), GL100 (USB, WLA			
External dimer Weight (*11) Software sp Item Model name Supported OS Supported dev Functions	nsions (W x D x H) pecifications for pecifications for vice	500 g r PC Description GL100_240_840-APS Windows 10, 8.1, 8, 7, Vista (32/64-bit edition) GL840 (USB, Ethernet, WLAN), GL240 (USB, WLAN), GL100 (USB, WLA Control the GL series, Real-time data capture, Replay data, and Data format c	onversio		
External dimer Weight (*11) Software sp Item Model name Supported OS Supported dev Functions Supported uni	nsions (W x D x H) pecifications for ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	500 g PC Description GL100_240_840-APS Windows 10, 8.1, 8, 7, Vista (32/64-bit edition) GL840 (USB, Ethernet, WLAN), GL240 (USB, WLAN), GL100 (USB, WLA Control the GL series, Real-time data capture, Replay data, and Data format c Up to 1000 channels total, Up to 4 groups (number of units is limited by	onversio model)		
External dimer Weight (*11) Software sp Item Model name Supported OS Supported dev Functions Supported uni Settings contro	nsions (W x D x H) pecifications for i vice ts & channels ol	500 g PC Description GL100_240_840-APS Windows 10, 8.1, 8, 7, Vista (32/64-bit edition) GL340 (USB, Ethernet, WLAN), GL240 (USB, WLAN), GL100 (USB, WLA Control the GL series, Real-time data capture, Replay data, and Data format c Up to 1000 channels total, Up to 4 groups (number of units is limited by Input condition, Captuering condition, Trigger/Alarm condition, Report, e	onversio model)		
External dimer Weight (*11) Software sp Item Model name Supported OS Supported dev Functions Supported uni Settings contro	nsions (W x D x H) pecifications for vice ts & channels ol Saved to PC	500 g PC Description GL100_240_840-APS Windows 10, 8.1, 8, 7, Vista (32/64-bit edition) GL840 (USB, Ethernet, WLAN), GL240 (USB, WLAN), GL100 (USB, WLA Control the GL series, Real-time data capture, Replay data, and Data format c Up to 1000 channels total, Up to 4 groups (number of units is limited by Input condition, Captuering condition, Trigger/Alarm condition, Report, e Saves captured data in real time (in GBD binary or CSV format)	onversio model)		
External dimer Weight (*11) Software sp Item Model name Supported OS Supported dev Functions Supported uni Settings contrr Capturing data	nsions (W x D x H) pecifications for vice ts & channels of Saved to PC Saved to GL unit	500 g PC Description GL100_240_840-APS Windows 10, 8.1, 8, 7, Vista (32/64-bit edition) GL480 (USB, Ethernet, WLAN), GL240 (USB, WLAN), GL100 (USB, WLA Control the GL series, Real-time data capture, Replay data, and Data format o Up to 1000 channels total, Up to 4 groups (number of units is limited by Input condition, Captuering condition, Trigger/Alarm condition, Report, e Saves captured data in real time (in GBD binary or CSV format) Saves to the SD memory card (in GBD binary or CSV format)	onversio model) tc.		
External dimer Weight (*11) Software sp Item Model name Supported OS Supported dev Functions Supported uni Settings contrr Capturing data	nsions (W x D x H) pecifications for vice ts & channels of Saved to PC Saved to GL unit	500 g PC Description GL100_240_840-APS Windows 10, 8.1, 8, 7, Vista (32/64-bit edition) GL420 (USB, Ethernet, WLAN), GL240 (USB, WLAN), GL100 (USB, WLA Control the GL series, Real-time data capture, Replay data, and Data format or Up to 1000 channels total, Up to 4 groups (number of units is limited by Input condition, Captureing condition, Trigger/Alarm condition, Report, Saves to the SD memory card (in GBD binary or CSV format) Saves to the SD memory card (in GBD binary or CSV format)	onversio model) tc. y only),		
External dimer Weight (*11) Software sp Item Model name Supported OS Supported dev Functions Supported uni Settings contro Capturing data Displayed info	nsions (W x D x H) pecifications for vice ts & channels of Saved to PC Saved to GL unit	500 g PC Description GL100_240_840-APS Windows 10, 8.1, 8, 7, Vista (32/64-bit edition) GL840 (USB, Ethernet, WLAN), GL240 (USB, WLAN), GL100 (USB, WLA Control the GL series, Real-time data capture, Replay data, and Data format c Up to 1000 channels total, Up to 4 groups (number of units is limited by Input condition, Captuering condition, Trigger/Alarm condition, Report, e Saves captured data in real time (in GBD binary or CSV format) Saves to the SD memory card (in GBD binary or CSV format) Y-T waveform, Digital values, Report, X-Y graph (specified period of data, data repla Two display for the current and past, Statistical calculation, and Integrated value in	onversio model) tc. y only), a bar chai		
External dimer Weight (*11) Software sp Item Model name Supported OS Supported dev Functions Supported uni Settings contro Capturing data Displayed info	nsions (W x D x H) pecifications for vice ts & channels of Saved to PC Saved to GL unit	500 g PC Description GL100_240_840-APS Windows 10, 8.1, 8, 7, Vista (32/84-bit edition) GL340 (USB, Ethernet, WLAN), GL240 (USB, WLAN), GL100 (USB, WLA Control the GL series, Real-time data capture, Replay data, and Data format c Up to 1000 channels total, Up to 4 groups (number of units is limited by Input condition, Captuering condition, Trigger/Alarm condition, Report, e Saves captured data in real time (in GBD binary or CSV format) Y-T waveform, Digital values, Report, XY graph (specified period of data, data repla Two display for the current and past, Statistica caliculation, and Integrated value in Converting data format to CSV from GBD binary, merge multiple data file	onversio model) tc. y only), a bar chai		
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GL240 Ana Item	log input specif						
Input method		Descr All ch		nced input(*12), Scans channels for sampling			
Type of input t	terminal		terminal (M3 screw				
Measurement	Voltage	20, 50, 100, 200, 500 mV, 1, 2, 5, 10, 20, 50, 100 V, and 1-5V F.S. (Full Scale)					
range	Thermocouple		K, J, E, T, R, S, B, N				
	Humidity			humidity sensor (option B-530)			
Filter Moosuromont	Voltago	Off, 2, 5, 10, 20, 40 (moving average in selected number) ± 0.1% of F.S. (Full Scale)					
Measurement accuracy (*13)				Measurement accuracy			
40001409 (10)	(Thermocouple) (*14)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(TS: Temp Sense)				
		R	0 ≤ TS ≤ 100 °C	± 5.2 °C			
			100 < TS ≤ 300 °C	± 3.0 °C			
				± (0.05% of rdg. + 2.0 °C)			
		s	0 ≤ TS ≤ 100 °C				
			100 < TS ≤ 300 °C 300 < TS < 1760 °C	± (0.05% of rdg. + 2.0 °C)			
		в	400 ≤ TS ≤ 600 °C	± 3.5 °C			
				± (0.05% of rdg. + 2.0 °C)			
		к		± (0.05% of rdg. + 2.0 °C)			
				± (0.05% of rdg. + 1.0 °C)			
		E		± (0.05% of rdg. + 2.0 °C)			
		т	-100 < 15 ≤ 800 °C	± (0.05% of rdg. + 1.0 °C) ± (0.1% of rdg. + 1.5 °C)			
		l'		± (0.1% of rdg. + 1.5 °C) ± (0.1% of rdg. + 0.5 °C)			
		J	-200 ≤ TS ≤ -100 °C				
			-100 < TS ≤ 100 °C	± 1.7 °C			
			100 < TS ≤ 1100 °C	± (0.05% of rdg. + 1.0 °C)			
		N	-200 ≤ TS < 0 °C	± (0.1% of rdg. + 2.0 °C)			
		14/		± (0.1% of rdg. + 1.0 °C)			
		W R.J.C.	0≤15≤2000°C	± (0.1% of rdg. + 1.5 °C) ± 0.5 °C			
A/D converter			-Delta type, 16 bits	effective resolution: 1/40000 of the measuring full range)			
Maximum	Between		to 1 V range: 60 Vp				
input voltage	(+) / (-) terminal	2 V to	100 V range: 110 V	p-p			
	Channels ((-) / (-))	60 Vp-p					
Max. voltage	Channel / GND Between channels	60 Vp					
(withstand)	Channel / GND		p-p (1 minute) p-p (1 minute)				
(minotand)		000 1	p p (1 mildto)				
	AN unit (option)						
Item		Descr					
Model number Supported GL		B-568), GL240				
Communicatio				using radio waves in the 2.4GHz band)			
Supported WL			02.11b/g/n	· · · · · · · · · · · · · · · · · · ·			
		WPS:	Push button or PIN	method			
				4, WEP128, WPA-PSK/WPA2-PSK, AKIP/AES			
				Approx. 40m (depending on the conditions of radio			
Installed locat	ion		unication)	lot on the GL840/GL240 (*7)			
Function	1011			municate with the GL100-WL as a remote sensor			
				00-WL is transferred to GL840/GL240)			
		· ·		ate with PC or Smart device (control GL840/GL240 and			
			er the data from GL				
): Up to 5 units of th				
Connected nu	Connected number of GL100-WL		GL240: 1 unit of the GL100-WL				
1. Input/Out	out cable for GL (opt	ion B-					
 Input/Outp 2. Input sign 	out cable for GL (opt al;		513) is required to o				
 Input/Out; Input sign: Voltag Signal 	out cable for GL (opi al; e range: Up to 24V type: Voltage, Oper	comm	513) is required to co on ground) tor, Contact (relay)	onnect the signal.			
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Due to the possibility of equipment or PC failure, the data files on the instrument will not be guaranteed to be held on the memory. Please make a backup of data whenever possible to avoid data loss.
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 Specifications are subject to change without notice. For more information about product, please check the web site or contact your local representative.

For using equipment in correctly and safely .^{Before} using it, please read the user manual and then please use it properly in accordance with the description. . To avoid malfunction or an electric shock by current leakage or voltage, please ensure a ground connection and use according to the specification.

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