# **GRAPHTEC**

Isolated/Universal Input, Standalone Multi-Channel Datalogger

# midi LOGGER GL840-M / GL840-WV / GL240



Setting New Heights in Data Recording

- Flexible input system for wide array of applications
- Extended memory capacity using SD memory card
- Maximum sampling interval of up to 10ms











www.graphteccorp.com

# midi LOGGER GL840<sub>series</sub> & 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.

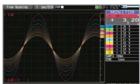
#### ■ 4 channels of Logic/Pulse inputs

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



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

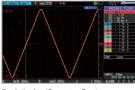
Carries a clear 7-inch wide TFT color LCD screen (WVGA: 800 x 480 dots) for the GL840, and 4.3-inch wide LCD screen (WQVGA: 480 x 272 dots) for the GL240. Monitoring data are displayed in waveform or digital form option. Parameter settings can be displayed on the screen.





Waveform display (Analog + Digital)

Digital display





Waveform display (Analog only)

## Maximum sampling interval of up to **10ms**

Provides faster sampling rates for voltage measurements. You are able to achieve up to 10ms sampling speed when limiting the number of channels in use.

Model	Sampling interval		10ms	20ms	50ms	100ms	200ms	500ms	1s	2s
Model	Number of channel		1	2	5	10	20	50	100	200
CL 040	Measuring	Voltage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GL040		Temperature	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
	Measuring	Voltago	Yes	Yes	Yes	Yes	Yes(10ch)	Yes(10ch)	Yes(10ch)	Yes(10ch)
		Temperature	N/A	N/A	N/A	Yes	Yes(10ch)	Yes(10ch)	Yes(10ch)	Yes(10ch)

 $<sup>^{\</sup>star}$  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

## Supports large-size SD memory card for reliable long term measurement

New GL series carries two SD memory card slots for storage device. The SDHC type SD memory card is supported up to 32GB. 4GB SD memory card comes as a standard accessory installed in the first slot.

Capturing 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		// 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

<sup>\*</sup> 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.

# **Useful functions**

#### ■ Alarm output function

Based on set conditions for each channels, alarm signals can be placed using the four channel alarm output ports.\*

\* 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.

#### Navigation function

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

#### ■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

#### **Multi-Input Model** midi LOGGER GL840-M



Suitable for temperature measurement with multiple channels.

#### **High Voltage Withstand Model** midi LOGGER GL840-WV



Suitable for stacked high voltage battery application, or high-precision temperature measurement.

#### Multi-input type Withstand-voltage Withstand voltage & Accuracy (B-564) type (B-565) 20 mV to 100 V 20 mV to 100 V Input voltage range Max. voltage (Input - GND) 60 Vp-p 300 Vp-p R, S, B, K, E, T, J, N, W (WRe5-26) RTD (Resistance Temp. Detector) Pt100 (IEC751), JPt100 (JIS), Pt1000 (IEC751) Voltage ± 0.1% of F.S. $\pm (0.05\% \text{ of FS} + 10\mu\text{V})$ Accuracy Temperature' ± 1.55 °C ± 1.1 °C

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

# 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.



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



Input terminal unit (B-564/565)

connects to the GL840 using the external cable (B-567).



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



base (B-566) & input terminal unit (B-564/565)

#### Configuration 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

<sup>\*</sup> 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.



# 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 connects to the GL840 directly.



- \*\* 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

GS-DPA

# High performance software with useful functions for the PC (GL100\_240\_840-APS)



Ethernet or USB



PC (Software)

#### ■ Supports GL840, GL240, GL100

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.

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

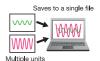
Create a schedule for your monitoring to start and stop at selected time, and set an automatic measurement schedule.

#### 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.



Schedule table is able to create easily using mouse.



#### 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.

Item	eries specification	Description					
Model numbe	er	GL840-M/GL840-WV GL240					
	alog input channels	20 channels in standard configuration, 10 channels					
		Expandable up to 200 channels					
Number of an	alog input terminals	Up to 10 terminals (standard config: 1)	N/A				
Type of analog	g input terminal	Multi-input type, Withstand-voltage type	N/A				
Port for digita	sensor	1 port for the sensor/terminal of the GL100	N/A				
External input	Input *2	Trigger or Sampling (1 channel), Logic/P	ulse (4 channels)				
output *1	Ouput *3	Alarm (4 channels)					
Sampling inte	rval	10 ms to 1 hour (10ms to 50ms: voltage	only) *4, External signal				
Time scale of	waveform display	1 sec. to 24 hour /division					
Trigger, Alarm	Trigger action	Start or stop capturing data by the trigg	er				
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), F					
	Alarm output	Outputs a signal when alarm condition of					
Pulse input	Rotation count	Counts the number of pulses per sampli					
function	(RPM) mode	(rotations per minute), Number of pulses					
		50, 500, 5000, 50k, 500k, 5M, 50M, 500					
	Accumulating	Accumulates the number of pulses from					
	count mode	50, 500, 5000, 50k, 500k, 5M, 50M, 500					
	Instant count	Counts the number of pulses per sampling interval					
	mode	50, 500, 5000, 50k, 500k, 5M, 50M, 500					
Calculation	Between channels	Addition, Subtraction, Multiplication, and					
function	Statistical	Select two calculations from Average, Peak, Maximum, Minimum, RMS					
Search function			ogic or pulse or alarm point in captured dat				
Interface to P		Ethernet, USB 2.0 (Hi-speed)	USB 2.0 (Hi-speed)				
Storage device	Media Saved contents	SD memory card (Support SDHC, up to					
Capturing mo		Captured data, Setting conditions, Scre- Mode: Normal, Ring, Relay	ен сору				
Capturing inc	ide		capturing data: 1000 to 2000000 points) *7				
Donlay data (ir	GBD or CSV format)	Relay: Saves data to multiple files without losing data until dada capturing is stopped.  Replays captured data that was saved Replays captured data that was saved					
nepiay data (ii	TODD of OOV format)	in the GL840 in the GL240					
Scaling (Engir	neering unit) function	Measured value can be converted to specified engineering unit					
ocaling (Engli	leering unity function	Analog voltage: Converts using four reference points (gain, offset)					
		Temperature: Converts using two references.	· · · · · · · · · · · · · · · · · · ·				
		Pulse count: Converts using two reference points (gain)					
Action during	data canture	Displaying past data (using dual display mode (Current + Past data))					
Action during data capture		Hot-swapping the SD memory card					
		Saving data in between cursors					
Display (LCD)	Size		4.3-inch color TET (WOVGA: 480 x 272 dots				
, ()	Language	7-inch color TFT (WVGA: 800 x 480 dots)   4.3-inch color TFT (WQVGA: 480 x 272 dots) English, French, German, Chinese, Korean, Russian, Spanish, Japanese					
	Information *8	Waveform in Y-T with digital values, Waveform only, Digital value, Digital values					
		and statistics values					
Operating env	vironment	0 to 45 °C, 5 to 85 % RH (non condense	ed)				
operating on	VII OTIITIOTIC	(When operating with batterypack 0 to 40 °C, charging battery 15 to 35 °C)					
Power source	AC adapter	100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard accessory)					
. 54401 300100	DC power	8.5 to 24 V DC (DC drive cable (option E					
	Battery pack	Mountable battery pack (battery pack (					
Power consul		Max. 38 VA	Max. 36 VA				
External dime		GL840-M: Approx. 240 x 158 x 52.5	Approx. 188 x 117 x 42				
	n, Excluding projections)	GL840-WV: Approx. 240 x 166 x 52.5	1				
Weight *10	. Jp J	GL840-M: Approx. 1010 g	Approx. 500 g				
		GL840-WV: Approx. 1035 g					
Software s	pecifications for						
Item		Description					
Model name		GL100_240_840-APS					
Supported OS	3	Windows 8.1, 8, 7, Vista (32/64-bit edition)					
Supported de		GL840 (USB, Ethernet), GL240 (USB), GL100 (USB)					
Functions	-	Control the GL series, Real-time data capture, Replay data, and Data format conversion					
	its & channels	Up to 1000 channels total, Up to 4 groups (number of units is limited by model)					
Settings conti		Input condition, Capturing condition, Trigger/Alarm condition, Report, etc.					
	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 b					
Displayed info		Y-T waveform, Digital values, Report, X-					
,,	•	data reply only), Two display for the curr					
File operation			D binary, merge multiple data files in the				
sporation		time axis or as an additional channel					
Warning funct	tion	Send e-mail to the specified address when the alarms occur					
Statistical cal		Send e-mail to the specified address when the alarms occur  Maximum, Minimum, and Average during data capturing					
Report function		Maximum, Minimum, and Average during data capturing  Creates the daily or monthly report automatically					
*2. Input sign	• Voltage range: • Threshold: app gnal: Open collector	up to 24V (common ground) • Signal typrox + 2.5 V (Hysteresis: approx 0.5V (2.5) (pull-up to 5V by 10kΩ resistor)	nal. be: Voltage, Open collector, Contact (relay v/ to 3V))				
Voltag *4. Minimum	je: 30V, Current: 0.5A	out transistor> , Collector dissipation: 0.2W mber of channels used.					

4. Minum interval varies by dumber of channels used.
5. Oldum interval varies by dumber of channels used.
6. 4GB SD memory card is installed to slot 1 as standard accessory.
7. Size of the capture data will be limited to 1/3 valuable memory.
8. Display mode is switched every time the dedicated key is pressed. In magnified digital value mode, the displayed channel number can be specified. In the waveform display mode, the changing of the time scale will be effective from the point of the next displayed data.
9. Rating under maximum power consumption using the AC adapter, with LCD display on, and battery pack(s) being charged.
10. Excludes AC adapter and battery pack.
11. The terminal "b" for using the RTD is connected each other across all channels.
12. If the specifications of the temperature sensor is lesser or greater than the selected measurement range, GL840 can measure up to the specifications of the sensor.
13. Subject to the following conditions:
14. On temperature is 23" C± 5" C.
15. When 30 minutes or more have elapsed after power was turned on.
16. Filter is set to 10.
16. Sampling rate is set to 1 sec, using 20-channel in GL840-M, 10-channel in GL840-WV and 10-channel in GL240.
16. Milt size of thermocouple used is 0,32mm diameter in the T type and 0.85mm diameter in other types.
16. Supports 3-wire type sensor.

IIIuminance & UV sensor

Carbon Dioxide (CO2) sensor

Acceleration & Temp sensor

Thermistor sensor (Normal type) GS-103AT-4P

Thermistor sensor (Ultrathin type) GS-103JT-4P

Thermistor input terminal

AC current sensor (100A)

Dual port adapter

AC current sensor (200A)
Voltage & Temp input terminal
Module extension cable

For using equipment in correctly and safely

Before using it, please read the user manual and then please use it property 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.

GS-CO2

GS-4TSF

GS-AC50A

GS-AC200A

GS-EXC

GS-DPA

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	llo	g inpu	t specifications						
Item				Description					
Model number				GL840 series GL240					
Input method				All channels isolated balanced input *11, Scans channels for sampling,					
				Screw terminal (M3) 20, 50, 100, 200, 500 mV, 1, 2, 5, 10, 20, 50, 100 V, and 1-5V F.S. (Full Scale)					
Measurement Voltage									
rang	е		Thermocouple	Type: K, J, E, T, R, S,	Type: K, J, E, T, R, S, B,				
			DTD /Darieters	Range: 100, 500, 200	N, W (WRe5-26)				
			RTD (Resistance	Type: Pt100, JPt100			N/A		
							520)		
Filte	_		Humidity	0 to 100 % RH - using the humidity sensor (option B-530)  Off, 2, 5, 10, 20, 40 (moving average in selected number)					
		omont	accuracy *13	OII, 2, 3, 10, 20, 40 (I	HOVIN	g average in selected numi.	Der)		
ivica		odel nu		GL840-M, Input terminal B-564 GL840-WV, Input terminal B-565 GL240					
		Itage	ilibei	± 0.1% of F.S. (Full Scale) ± (0.05% of F.S. + 10µV)			± 0.1% of F.S. (Full Scale)		
			ure (Thermocouple)	*14	ouic)	Σ (0.0070 011.0. + 10μν)	± 0.170 011.0. (1 dii 00die)		
	10	Туре	Measurement	Measurement accura	Measurement accuracy				
		1,700	range *15	Tribubarorriorit abbaro	,	Measurement accuracy	mododiomoni documely		
		R/S	0 ≤ TS ≤ 100 °C	± 5.2 °C		± 4.5 °C	± 5.2 ℃		
			100 < TS ≤ 300 °C	± 3.0 °C		± 3.0 °C	± 3.0 °C		
			R: 300 < TS ≤ 1600 °C	± (0.05% of rdg. + 2.	0 °C)	± 2.2 °C	± (0.05% of rdg. + 2.0 °C)		
			S: 300 < TS ≤ 1760 °C	± (0.05% of rdg. + 2.		± 2.2 °C	± (0.05% of rdg. + 2.0 °C)		
		В	400 ≤ TS ≤ 600 °C	± 3.5 °C		± 3.5 °C	± 3.5 °C		
			600 < TS ≤ 1820 °C	± (0.05% of rdg. + 2.	0 °C)	± 2.5 °C	± (0.05% of rdg. + 2.0 °C)		
		K	-200 ≤ TS ≤ -100 °C	± (0.05% of rdg. + 2.		± 1.5 °C	± (0.05% of rdg. + 2.0 °C)		
			-100 < TS ≤ 1370 °C	± (0.05% of rdg. + 1.		± 0.8 °C	± (0.05% of rdg. + 1.0 °C)		
		Е	-200 ≤ TS ≤ -100 °C	± (0.05% of rdg. + 2.		± 1.0 °C	± (0.05% of rdg. + 2.0 °C)		
	-100 < TS ≤ 800 °C		-100 < TS ≤ 800 °C	± (0.05% of rdg. + 1.	0 °C)	± 0.8 °C	± (0.05% of rdg. + 1.0 °C)		
		Т	-200 ≤ TS ≤ -100 °C	± (0.1% of rdg. + 1.5	°C)	± 1.5 °C	± (0.1% of rdg. + 1.5 °C)		
			$-100 < TS \le 400 ^{\circ}C$	± (0.1% of rdg. + 0.5 °C)		± 0.6 °C	± (0.1% of rdg. + 0.5 °C)		
		J	-200 ≤ TS ≤ -100 °C			± 1.0 °C	± 2.7 °C		
			-100 < TS ≤ 100 °C	± 1.7 °C		± 0.8 °C	± 1.7 °C		
						± 0.6 °C	± (0.05% of rdg. + 1.0 °C)		
		N	-200 ≤ TS < 0 °C	± (0.1% of rdg. + 2.0 °C)		± 2.2 °C	± (0.1% of rdg. + 2.0 °C)		
	0 ≤ TS ≤ 1300 °C W 0 ≤ TS ≤ 2000 °C R.J.C.			± (0.1% of rdg. + 1.0		± 1.0 °C	± (0.1% of rdg. + 1.0 °C)		
			0 ≤ TS ≤ 2000 °C	± (0.1% of rdg. + 1.5 °C)		± 1.8 °C	± (0.1% of rdg. + 1.5 °C)		
				± 0.5 °C		± 0.3 °C	± 0.5 °C		
	Te		ure (RTD) *16	Г		1	1		
		Type	Measurement range	Measurement accuracy		Measurement accuracy	Measurement accuracy		
	Pt100 -		-200 ≤ TS ≤ 100 °C	± 1.0 °C	± 0.6 °C ± 0.8 °C ± 1.0 °C ± 0.6 °C		N/A		
			100 < TS ≤ 500 °C	± 1.0 °C			IN/A		
			500 < TS ≤ 850 °C						
			-200 ≤ TS ≤ 100 °C	± 0.8 °C					
			100 < TS ≤ 500 °C	1 0.0 0		± 0.8 °C	-		
Pt1000		Pt1000	-200 ≤ TS ≤ 100 °C	± 0.8 °C		± 0.6 °C			
	11100		100 < TS ≤ 500 °C	-		± 0.8 °C	1		
A/D	COI	nverter		Sigma-Delta type, 16	bits (e	effective resolution: 1/40000	of the measuring full range)		
Max			Between (+) / (-)		20 mV to 2 V range: 60 Vp-p, 20 m				
inpu	t vo	ltage	, , , , ,	5 V to 100 V range: 110 Vp			2 V to 100 V range: 110 Vp-p		
			Channels ((-) / (-))	60 Vp-p		600 Vp-p	60 Vp-p		
			Channel / GND	60 Vp-p		300 Vp-p	60 Vp-p		
		ltage	Between channels	350 Vp-p (1 minute)		600 Vp-p (1 minute)	350 Vp-p (1 minute)		
(with	sta	ınd)	Channel / GND	350 Vp-p (1 minute)		2300 Vrms AC (1 minute)	350 Vp-p (1 minute)		
Opt	ioi	ns and	Accessories						
Item				Model number Desc		escription			
Input terminal (Multi-input)			(Multi-input)	B-564 20ch ir		h input terminal, multi-input type, for GL840			
Input terminal (Withstand voltage)			(Withstand voltage)			0ch input terminal, withstand-high-voltage type, for GL840			
Base unit for input terminal						ase unit for input terminal (B-564 or 565), for GL840			
Connection cable for extension			ble for extension			able to connect GL840 and B-566, 50 cm long			
terminal						able to connect GL840 and B-566, 2 m long			
Battery pack						echargeable Lithium-ion battery (7.2 V, 2900mAh)			
, ,,						racket for DIN rail (GL840 main body), for GL840, Build-to-order			
Bracket for DIN rail (extension terminal)						acket for DIN rail (B-566 terminal base), for GL840, Build-to-order			
Input/Output cable for GL series						long (no clip on end of cable) long (no clip on end of cable)			
DC drive cable				B-514					
Humidity sensor			OT .	B-530	With 3 m long signal cable (with power plug)				
Shunt resistor AC power adapter			-4	B-551-10	250 ohms (it converts the signal to the				
				ACADP-20 GS-TH		: 100 to 240 V AC, Output:			
Temp & Humidity sensor			IV concer	CC LVIIV	Temperature and humidity measurement, for GL840				

- 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.



Illuminance and UV measurement, cable 20cm long, for GL840

CO2 measurement, cable 20cm long, for GL840 Acceleration and temp. measurement, cable 20cm long, for GL840

Temp measurement (using a Thermistor), cable 20cm long, for GL840 Temperature sensor (-40 to 105 °C), 3m long, 4pcs/set, for GS-4TSR

Temperature sensor (-40 to 120 °C), 3m long, 4pcs/set, for GS-4TSR Current measurement (using a CT), cable 20cm long, for GL840

Current sensor (CT) 50A, cable 20cm long, for GS-DPA-AC

Current sensor (CT) 100A, cable 20cm long, for GS-DPA-AC

Current sensor (CT) 200A, cable 20cm long, for GS-DPA-AC Voltage or Temp (using a thermocouple), cable 20cm long, for GL840 Extension cable for the sensor/terminal, 1.5m long, for GL840

Connect up to 2 sensor modules, for GL840