





MIDI LOGGER GL840-M / GL840-WV

Isolated/Universal Input, Standalone Multi-Channel Datalogger. Setting New Heights in Data Recording.

GRAPHTEC



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



10-Channel Portable Model

midi LOGGER GL240





Multi-Input Model

midi LOGGER GL840-M





midi LOGGER GL840-WV





GRAPHTEC



GL840 series

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's inputs are suitable for combined measurements from voltage, temperature, humidity, logic, and pulse signals.

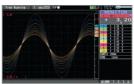
■ 4 channels of Logic/Pulse inputs

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



Large easy-to-read 7-inch wide color LCD

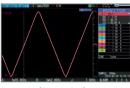
Carries a clear 7-inch wide TFT color LCD screen (WVGA: 800 x 480 dots). Monitoring data are displayed in waveform or digital form option. Parameter settings can be displayed on the screen.



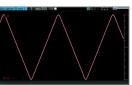
Waveform display (Analog + Digital)
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179	BRITISH D
+ 50.00 v	+ 50.00 v
+ 50.00 v	+ 50.00 v
+ 50.00 v	+ 50.00 v
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	EAR 1 2 3 4

Digital display







Waveform display (Analog only)

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 by drag & drop feature.

Navigation function

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

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	Samplin	Sampling interval		20ms	50ms	100ms	200ms	500ms	1s	2s
	Model	Number o	f channel	1	2	5	10	20	50	100	200
	GL840	Measuring	Voltage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
			Temperature	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes

* 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

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
GL840	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

* 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).

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 $100 \, \mathrm{ms}$ or slower.

■ 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 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 is periodically synchronized with the NTP server.

* The GL840 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.

Withstand-voltage type (B-565) Multi-input type Withstand voltage & Accuracy (B-564) 20 mV to 100 V Input voltage range 20 mV to 100 V Max. voltage (Input - GN 60 Vp-p 300 Vp-p R. S. B. K. E. T. J. N. W (WRe5-26) Thermocouple RTD (Resistance Temp. De Pt100 (IEC751), JPt100 (JIS), Pt1000 (IEC751) ± 0.1% of F.S $\pm (0.05\% \text{ of FS} + 10 \mu\text{V})$ Accuracy + 155 %

enable measurement of various signals

Three types of input systems

Along with the basic analog

signal, Logic/Pulse, and digital

sensors can be all connected to

monitor a variety of measure-

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

body of the GL840.



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

external cable (B-567).



4. The combined extension terminal 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 рс	1 рс	1 рс			
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.







Thermistor

adapter GS-4TSR

* Supports up to two AC current sensors

Support digital sensors

Acceleration/

Thermistor

AC current

Carbon Dioxide GS-CO2

Pulse signal input port

AC current

Illuminance/ UV GS-LXUV







input port

Digital sensor

connection port

Voltage/Temp GS-4VT

lows 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

Dual port adapter

High performance software with useful functions for the PC (GL240 840-APS)

GI 840 serie GL240

Ethernet



(Software)

■ Supports GL840, GL240

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

■ 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 monitor-ing 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.

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

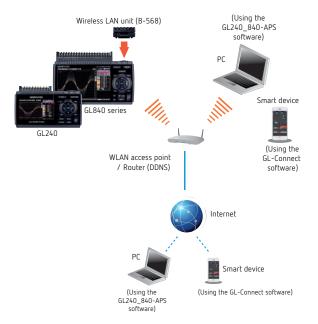


Wireless Measurement Using WLAN (option)

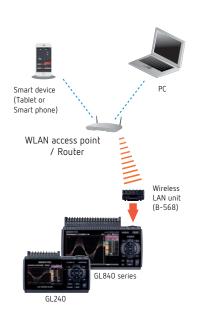
Wireless LAN option enables the wireless communication with other devices. Connects to the wireless unit remotely when set as an access point. When set as a station, PC and smart devices will be able to access the WLAN unit directly.

Communication with the PC or Smart device

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



High quality performance and measurement software with useful functions for the PC & smart device environment



For PC (GL240_840-APS)

Software for the PC is included as a standard accessory.

- Monitor and save captured data remotely
- Control the GL840/GL240
- Additional functions
 - Scheduling function Group function

Deta format conversion

File operation And more!

App Store

Google play

Please type "graphtec"

For Smart device (GL-Connect)

Apps for the smart devices are available on the Android OS and iOS platforms. Download them free from the individual stores.

Monitoring captured data

Real time captured data can be displayed as digital values in real time on the smart device apps. The saved data on the GL840/GL240 main body can also be displayed in waveform display format. Captured data will not be saved on the smart device

Set and control simple functions

Dedicated control features allow remote start and stop, setting the sampling interval, and setting the alarm conditions.

■ Control the settings remotely

Web server function of the GL840/GL240 allows remote control and monitoring using this application.





	unit specification					
Item		Description	T			
Model number		GL840-M	GL840-WV			
	log input channels	20 channels in standard configuration, Expa				
	log input terminals	Up to 10 terminals (20 channels / terminal), standard config: 1				
Type of analog		Multi-input type, Withstand-voltage type				
Port for digital	sensor	1 port for the sensor/input terminal/adapter of the GL100				
External input/		Trigger or Sampling (1 channel), Logic/Pulse	(4 channels)			
output *1	Output *3	Alarm (4 channels)				
Sampling interv	/al	10 ms to 1 hour (10ms to 50ms: voltage only)	*4, External signal			
Time scale of w	aveform display	1 sec. 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				
	99	Stop: Off, Measured signal, Alarm, Extern				
	Condition Setting	Combination: OR or AND	any areast, received time			
	Condition Setting	Analog signal: Rising (High), Falling (Low), V	Vindow in Window out			
		Logic signal: Pattern (combination of each in				
		Pulse (number of count): Rising (High), Falli				
	Alarm output	Outputs a signal when alarm condition occu				
Pulse input	Rotation count	Counts the number of pulses per sampling interval and converts to rpm				
function	(RPM) mode	(rotations per minute), Number of pulses for one rotation can 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 mode	50, 500, 5000, 50k, 500k, 5M, 50M, 500M C/F.S. (Counts/Full Scale)				
	Instant count	Counts the number of pulses per sampling interval				
mode		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 function		Search for analog signal levels, values of logic or pulse or alarm point				
Scoren ranction		in captured data Ethernet (10 BASE-T/100 BASE-TX), USB (Hi-speed), WLAN (using B-568 option)				
Interface to PC						
Storage	Media	SD memory card (Support SDHC, up to 32 GB), supports 2 slots * 6				
device	Saved contents					
		Captured data, Setting conditions, Screen copy				
Capturing mod	2	Mode: Normal, Ring, Relay	turing data: 1000 to 2000000 points) *			
		Ring: Saves most recent data (Number of cap)	dring data. 1000 to 2000000 points)			
		Relay: Saves data to multiple files without losing data until da da capturing is stopped				
Replay data		Replays captured data that was saved in the				
Scaling (Engine	ering unit) function	Measured value can be converted to specific				
		 Analog voltage: Converts using four refe 	erence points (gain, offset)			
		Temperature: Converts using two refere	nce points (offset)			
		Pulse count: Converts using two reference points (gain)				
Action during d	ata capture	· Displaying past data (using dual display m	ode (Current + Past data))			
		Hot-swapping the SD memory card				
		Saving data in between cursors				
Display	Size	7-inch TFT color LCD (WVGA: 800 x 480 dot	c)			
	Language	English, French, German, Chinese, Korean, R	1			
	Information *8	Waveform in Y-T with digital values, Wavefo				
	omiadon -		oy, o.gitai vaide, Digitai valdes			
Operating environment		and statistics values 0 to 45 °C. 5 to 85 % RH (non condensed)				
- I		(When operating with battery pack 0 to 40 °				
Power source	AC adapter	100 to 240 V AC, 50/60 Hz (1 pc of adapter				
	DC power	8.5 to 24 V DC (DC drive cable (option B-514				
Battery pack		Mountable two battery packs (battery pack	(option B-517): 7.2V DC, 2900mAh)			
	otion * 9	Max. 38 VA				
Power consum						
	sions (W x D x H	Approx. 240 x 158 x 52.5	Approx. 240 x 166 x 52.5			
Power consum External dimen in mm, Excludir		Approx. 240 x 158 x 52.5	Approx. 240 x 166 x 52.5			

Software sp	ecifications for f	PC		
Item		Description		
Model name		GL100_240_840-APS		
Supported OS		Windows 8.1, 8, 7, Vista (32/64-bit edition)		
Supported devi	ce	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 unit	& channels	Up to 1000 channels total, Up to 4 groups (number of units is limited by model)		
Settings control		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 infor	nation	Y-T waveform, Digital values, Report, X-Y graph (specified period of data, data		
		reply only), Two displays for the current and past data, and Statistical calculation		
File operation		Converting data format to CSV from GBD binary, merge multiple data files		
		in the time axis or as an additional channel		
Warning function		Send e-mail to the specified address when the alarms occur		
Statistical calculation		Maximum, Minimum, and Avarage during data capturing		
Report function		Creates the daily or monthly report automatically		

Item	Description
Model name	GL-Connect 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 waveform

lte m	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	Attached to the SD CARD slot number 2 on the GL840/GL240		
	* When the wireless LAN unit is installed, the SD memory card cannot be used		
	in slot number 2		
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		

Item		Description				
Model num	ber	GL840-M, Input terminal B-564	GL840-WV, Input terminal B-565			
Input meth	od	All channels isolated balanced input * 11, Scans channels for sampling				
Type of input terminal		Screw 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	Type: K, J, E, T, R, S, B, N, W (WRe5-26)	Type: K, J, E, T, R, S, B, N, W (WRe5-26)			
		Range: 100, 500, 2000 °C * 12				
	RTD (Resistance	Type: Pt100, JPt100 (JIS), Pt1000 (IEC751)				
	Temperature Detector)	Range: 100, 500, 2000 °C * 12				
	Humidity	0 to 100 % RH - using the humidity se	nsor (option B-530)			
Filter		Off, 2, 5, 10, 20, 40 (moving average	in selected number)			
	nt accuracy * 13					
Voltag		± 0.1% of F.S. (Full Scale)	± (0.05% of F.S. + 10μV)			
Temp	erature (Thermocouple) *					
Ту		Measurement accuracy	Measurement accuracy			
	(TS: Temp Sense)					
R	0 ≤ TS ≤ 100 °C	± 5.2 °C	± 4.5 °C			
	100 < TS ≤ 300 °C	± 3.0 °C	± 3.0 °C			
	300 < TS ≤ 1600 °C	± (0.05% of rdg. + 2.0 °C)	± 2.2 °C			
S	0 ≤ TS ≤ 100 °C	± 5.2 °C	± 4.5 °C			
	100 < TS ≤ 300 °C	± 3.0 °C	± 3.0 °C			
	300 < TS ≤ 1760 °C	± (0.05% of rdg. + 2.0 °C)	± 2.2 °C			
В	400 ≤ TS ≤ 600 °C	± 3.5 °C	± 3.5 °C			
	600 < TS ≤ 1820 °C	± (0.05% of rdg. + 2.0 °C)	± 2.5 °C			
K	-200 ≤ TS ≤ -100 °C	± (0.05% of rdg. + 2.0 °C)	± 1.5 °C			
	-100 < TS ≤ 1370 °C	± (0.05% of rdg. + 1.0 °C)	± 0.8 °C			
E	-200 ≤ TS ≤ -100 °C	± (0.05% of rdg. + 2.0 °C)	± 1.0 °C			
	-100 < TS ≤ 800 °C	± (0.05% of rdg. + 1.0 °C)	± 0.8 °C			
T	-200 ≤ TS ≤ -100 °C	± (0.1% of rdg. + 1.5 °C)	± 1.5 °C			
	-100 < TS ≤ 400 °C	± (0.1% of rdg. + 0.5 °C)	± 0.6 °C			
J	-200 ≤ TS ≤ -100 °C	± 2.7 °C	± 1.0 °C			
	-100 < TS ≤ 100 °C	± 1.7 °C	± 0.8 °C			
	100 < TS ≤ 1100 °C	± (0.05% of rdg. + 1.0 °C)	± 0.6 °C			
N	-200 ≤ TS < 0 °C	± (0.1% of rdg. + 2.0 °C)	± 2.2 °C			
1 1	0 TC 4300.00	. (0.10/ -6 -d 1.0.0C)	4.0.00			

			(TS: Temp Sense)		
	F	Pt100	-200 ≤ TS ≤ 100 °C	± 1.0 °C	± 0.6 °C
			100 < TS ≤ 500 °C		± 0.8 °C
			500 < TS ≤ 850 °C		± 1.0 °C
	1	JPt100	-200 ≤ TS ≤ 100 °C	± 0.8 °C	± 0.6 °C
			100 < TS ≤ 500 °C		± 0.8 °C
	F	Pt1000	-200 ≤ TS ≤ 100 °C	± 0.8 °C	± 0.6 °C
			100 < TS ≤ 500 °C		± 0.8 °C
/D c	'D converter			Sigma-Delta type, 16 bits (effective resolution: 1/40000 of the measuring full	
axin	num	1	Between	20 mV to 2 V range: 60 Vp-p,	

A/D converter		Sigma-Delta type, 16 bits (effective resolution: 1/40000 of the measuring full ra			
Maximum	Between	20 mV to 2 V range: 60 Vp-p, 5 V to 100 V range: 110 Vp-p			
input voltage	(+) / (-) terminal				
	Channels ((-) / (-))	60 Vp-p	600 Vp-p		
	Channel /GND	60 Vp-p	300 Vp-p		
Max. voltage	Between channels	350 Vp-p (1 minute)	600 Vp-p		
(withstand)	Channel /GND	350 Vp-p (1 minute)	2300 Vrms AC (1 minute)		

(withstand) (Channel / SND | 350 Vp-p (1 minute) | 2300 Vrms AC (1 minute) |

1. Input/Output cable for GL (option 8-513) is required to connect the signal.

1. Input signal;
1. Input signal;
1. Voltage up 15 to 24V (common ground)
1. Voltage up 15 to 24V (common ground)
1. Voltage up 15 to 24V (common ground)
1. Signal type: Voltage, Oper collector, Contact (relay)
1. Signal type: Voltage, Oper collector, Contact (relay)
1. Output signal: Oper collector, Contact (relay)
1. Output signal: Oper collector (poll-up to 24V y (10KD resistor)
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1. Brating under maximum power consumption using the AC adapter, with LCD display on, and battery pack(s)
1. The terminal to for using the RTD is connected each other across all channels.
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1. The terminal to for using the RTD is connected each other across all channels.
1. Subject to the following conditions:
1. Room temperature is 23

Item	Model number	Description
Input terminal (Multi-inputs)	B-564	20ch input terminal, multi-input type
Input terminal (Withstand voltage)	B-565	20ch input terminal, withstand-high-voltage type
Base unit for input terminal	B-566	Base unit for input terminal (B-564 or 566)
Connection cable	B-567-05	Cable to connect GL840 and B-566, 50 cm long
for extension terminal	B-567-20	Cable to connect GL840 and B-566, 2 m long
Wireless LAN unit	B-568	WLAN adapter, IEEE802.11b/g/n
Battery pack	B-569	Rechargeable Lithium-ion battery (7.2 V, 2900mAh)
Bracket for DIN rale (GL840 main body)	B-570	Bracket for DIN rail (GL840 main body), Build-to-order
Bracket for DIN rail (extension terminal)	B-540	Bracket for DIN rail (Input terminal), Build-to-order
Input/Output cable for GL series	B-513	2 m long (no clip on end of cable)
DC drive cable	B-514	2 m long (no clip on end of cable)
Humidity sensor	B-530	With 3 m long signal cable (with power plug)
Shunt resistor	B-551-10	250 ohms (it converts the signal to the "1-5V" from the "4-20m.
AC power adapter	ACADP-20	Input: 100 to 240 V AC, Output: 24 V DC
Temp & Humidity sensor	GS-TH	Temperature and humidity measurement
Illuminance & UV sensor	GS-LXUV	Illuminance and UV intensity measurement, cable 20cm lor
Carbon Dioxide (CO2) sensor	GS-CO2	CO2 measurement, cable 20cm long
Acceleration & Temp sensor	GS-3AT	Acceleration and temperature measurement, cable 20cm lo
Thermistor input terminal	GS-4TSR	Temp measurement (using a Thermistor), cable 20cm l
Thermistor sensor (Normal type)	GS-103AT-4P	Temperature sensor (-40 to 105 °C), 3m long, 4pcs/set
Thermistor sensor (Ultrathin type)	GS-103JT-4P	Temperature sensor (-40 to 120 °C), 3m long, 4pcs &et
AC current sensor adapter	GS-DPA-AC	Current measurement (using a CT), cable 20cm long
AC current sensor (50A)	GS-AC50A	Current sensor (CT) 50A, cable 20cm long
AC current sensor (100A)	GS-AC100A	Current sensor (CT) 100A, cable 20cm long
AC current sensor (200A)	GS-AC200A	Current sensor (CT) 200A, cable 20cm long
Voltage & Temp input terminal	GS-4VT	Voltage or Temperature (using a thermocouple), cable 20cm long
Module extension cable	GS-EXC	Extension cable for the sensor/terminal/adapter module, 1.5m
Dual port adapter	GS-DPA	Connect up to 2 sensor modules

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