

Isolated/Universal Input, Standalone Multi-Channel Datalogger

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





Multi-Input Model midi LOGGER GL840-M





NEW 10-Channel Portable Model midi LOGGER GL240



www.graphteccorp.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.

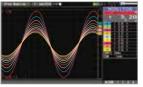
4 channels of Logic/Pulse inputs

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
Temp 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)	* Requires optional input/output cable (B-513). Select either 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)





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 to the GL840. * Firmware ver.1.10 or later.

Bar chart

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	Sampling interval		10ms	20ms	50ms	100ms	200ms	500ms	1s	2s
woder	Number of channel		1	2	5	10	20	50	100	200
GL840 Measuring	Magguring	Voltage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Temperature	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes	
GL240	Manaurina	Voltage	Yes	Yes	Yes	Yes	Yes(10ch)	Yes(10ch)	Yes(10ch)	Yes(10ch)
GL240 Mea	Measuring	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.

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	
GL240	GBD format	41 days	88 days	103 days	207 days	over 365	over 365	over 365	
(10ch)	CSV format	3 days	12 days	18 days	36 days	91 days	182 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) 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 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(AC power adapter), 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 ports.

GL840 expands to two models for application specific use

High Voltage Withstand Model

Suitable for stacked high voltage

battery application, or high-preci-

midi LOGGER GL840-WV

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Multi-Input Model midi LOGGER GL840-M



Suitable for temperature measurement with multiple channels.

sion temperature measurement. 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.

Connection cable (B-567-05 or B-567-20)

Extension terminal base (B-566)

Extension terminal

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

* Input terminal blocks for the B-564 and B-565 can be mixed together for combined configurations. However, the num 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.

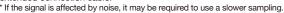
GL840 series

GL240

Ethernet or USB

PC

(Software)



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



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

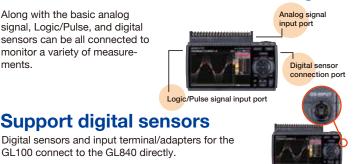
Data captured in multiple files can be merged into a single file. Using the combine function, data can be imported as a new channel overlaying on top of each other. The bind function connects the data in a time axis. When using the relay capture mode, the bind feature will append multiple files together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

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 Voltage Max. voltage (Input - GND) 60 Vp-p 300 Vp-p R, S, B, K, E, T, J, N, W (WRe5-26) Thermocouple Temp RTD (Resistance Temp Detector) Pt100 (IEC751), Pt1000 (IEC751), JPt100 (JIS) Voltage ± 0.1% of F.S. ±(0.05% of FS + 10µV) Accuracy Temperature* ± 1.55 °C ± 1.1 °C

* 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.





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

Dual port adapter ĠS-DPA

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

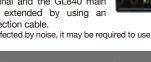
Converts the GBD (Graphtec Binary Data) format to CSV format. The file size is reduced using the compression function saving a value at particular time point of a specified interval. Or, it will save the average, maximum, or minimum values from the specified time interval as the highlighted values.



Schedule table is able to create easily using mouse







	eries specificatio						
Item		Description					
Model number		GL840-M/GL840-WV 20 channels in standard configuration,	GL240 10 channels				
Number of analog input channels		Expandable up to 200 channels	To charmers				
Number of analog input terminals		Up to 10 terminals (standard config: 1)	N/A				
	input terminal	Multi-input type, Withstand-voltage type	N/A				
Port for digital		1 port for the sensor/terminal of the GL100	N/A				
External input/	Input (*2)	Trigger or Sampling (1 channel), Logic/Pu	ulse (4 channels)				
output (*1)	Ouput (*3)	Alarm (4 channels)					
Sampling inter	val	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		Start or stop capturing data by the trigge	er				
function	Repeat action	Off, On (auto rearmed)					
	Trigger source	Start: Off, Measured signal, Alarm, Extern					
	0	Stop: Off, Measured signal, Alarm, Extern	nal, Clock, Week or Time				
	Condition Setting	Combination: AND / OR					
		Analog signal: Rising (High), Falling (Low					
		Logic signal: Pattern (combination of eac					
		Pulse (number of count): Rising (High), Fa					
Dulas insut	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 rpn (rotations per minute), Number of pulses for one rotation can be set to					
function	(RPM) mode						
		50, 500, 5000, 50k, 500k, 5M, 50M, 500l					
	Accumulating	Accumulates the number of pulses from the start of measurement					
	count mode	50, 500, 5000, 50k, 500k, 5M, 50M, 500l					
	Instant count	Counts the number of pulses per samplin					
Colouisting	mode Rotwoon obennels	50, 500, 5000, 50k, 500k, 5M, 50M, 500l					
Calculation	Between channels	Addition, Subtraction, Multiplication, and					
function	Statistical	Select two calculations from Average, Pe					
Search functio			pgic or pulse or alarm point in captured data				
Interface to PC		Ethernet, USB 2.0 (Hi-speed)	USB 2.0 (Hi-speed)				
Storage device	Internal External	Built-in 4GB Flash Memory (*6) One SD card slot (Supports SDHC memory)	any card up to 220 P) (*7)				
device							
0	Saved contents	Captured data, Setting conditions, Scree Mode: Normal, Ring, Relay	п сору				
Capturing mod	le						
			capturing data: 1000 to 2000000 points) (*8)				
Damlari alata (in			losing data until dada capturing is stopped.				
Replay data (in	GBD or CSV format)	Replays captured data that was saved in the GL840	Replays captured data that was saved				
Caaliaa (Eaaia	eering unit) function		in the GL240				
Scaling (Engin	eening unit) function	Measured value can be converted to specified engineering unit					
		Analog voltage: Converts using four reference points (gain, offset)					
		Temperature: Converts using two refere Dulas acupt: Converts using two refere					
		Pulse count: Converts using two references					
Action during	data capture	Displaying past data (using dual display mode (Current + Past data))					
		Hot-swapping the SD memory card					
D: 1 (10D)	0.	Saving data in between cursors Tet (MOVCA: 490 x 490 data) 4.2 inch color TET (MOVCA: 490 x 270 data)					
Display (LCD)	Size	7-inch color TFT (WVGA: 800 x 480 dots) 4.3-inch color TFT (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 val statistics values, Bar chart (in GL840)					
Operating env	ironmont	0 to 45 °C, 5 to 85 % RH (non condense	d				
Operating env	IIOIIIIein	(When operating with batterypack 0 to 4					
Power source	AC adapter	100 to 240 V AC, 50/60 Hz (1 pc of adap					
	DC power	8.5 to 24 V DC (DC drive cable (option B					
	Battery pack	Mountable battery pack (battery pack (op					
Power consun		Max. 38 VA	Max. 36 VA				
External dimer		GL840-M: Approx. 240 x 158 x 52.5	Approx. 188 x 117 x 42				
	, Excluding projections)	GL840-WV: Approx. 240 x 166 x 52.5					
Weight (*11)	, _noreanity projections)	GL840-MV. Approx. 240 x 166 x 52.5 GL840-M: Approx. 1010 g	Approx. 500 g				
		GL840-WV: Approx. 1010 g					
Software or	ecifications for	PC	I				
Item	reemeations for	Description					
Model name		GL100_240_840-APS					
Supported OS		Windows 10, 8.1, 8, 7, Vista (32/64-bit ed	dition)				
Supported dev		GL840 (USB, Ethernet), GL240 (USB), GI					
Functions	100		re, Replay data, and Data format conversion				
Supported uni	ts & channels						
Settings contr		Up to 1000 channels total, Up to 4 groups (number of units is limited by model) Input condition, Capturing condition, Trigger/Alarm condition, Report, etc.					
Capturing data		Saves captured data in real time (in GBD binary or CSV format)					
Capturing uata	Saved to GL unit	Saves to the SD memory card (in GBD binary or CSV format)					
Displayed info		Y-T waveform, Digital values, Report, X-Y graph					
Displayed IIIO	mation						
File operation		Two display for the current and past, Statistical caliculation, and Integrated value in a bar chart Converting data format to CSV from GBD binary, merge multiple data files in the					
. no operation		time axis or as an additional channel					
Warping	on	Send e-mail to the specified address who	an the alarms occur				
Warning functi Statistical calc							
Statistical calc		Maximum, Minimum, and Average during					
Report functio		Creates the daily or monthly report autor					
 Input/Out Input sign 	put cable for GL (op	tion B-513) is required to connect the sign up to 24V (common ground) · Signal type	iai. e: Voltage: Open collector: Contact (rolau)				
	Threshold: ap	up to 24V (common ground) · Signal typ prox + 2.5 V (Hysteresis: approx 0.5V (2.5)	/ to 3V))				
 Output signal 	anal: Open collector	(pull-up to 5V by 10kΩ resistor)					
<maxim Voltar</maxim 	ium rating of the out ie: 30V, Current: 0.5	put transistor> A, Collector dissipation: 0.2W					
Minimum	interval varies by nu	mber of channels used.					
*5 Output pr	ort can be specified	in each input channel.	Annual or later				
Please re	in Flash memory is a fer to the website for	available for units with serial numbers C60 more information.	4xxxxx or later.				
SD memory	ory card cannot be u	sed on the second slot while the wireless	LAN unit (option B-568) is used.				
Size of th	e capture data will b	e limited to 1/3 available memory.					
 Display m channel n 	unde is switched ever umber can be specif	y time the dedicated key is pressed. In ma ied. In the waveform display mode, the ch	agrimed digital value mode, the displayed anging of the time scale will be effective				
from the p	point of the next disp	onsumption using the AC adapter, with LCD display on, and battery pack(s) being charged.					
*10. Rating und *11 Excludes	er maximum power of AC adapter and bat						
*12. The termi	nal "b" for using the	tery pack. RTD is connected each other across all c	hannels.				

tem	g inpu	t specifications						
Item			Description					
Model number Input method			GL840 series	balan	and input (*19) Saana ahar	GL240		
nput m	lethou		Screw terminal (M3)	Udidii	ced input (*12), Scans char	inels for sampling,		
Measurement Voltage			,	mV, 1	I, 2, 5, 10, 20, 50, 100 V, ar	nd 1-5V F.S. (Full Scale)		
range		Thermocouple	Type: K, J, E, T, R, S,			Type: K, J, E, T, R, S, B,		
			Range: 100, 500, 200	0°C	(*13)	N, W (WRe5-26)		
		RTD (Resistance	Type: Pt100 (IEC751),	, Pt10	00 (IEC751), JPt100 (JIS)	N/A		
		Temperature Detector)	Range: 100, 500, 200	0 °C	(*13)			
		Humidity			humidity sensor (option B-			
Filter			Off, 2, 5, 10, 20, 40 (n	novin	g average in selected numl	per)		
		accuracy (*14)						
	odel nu	mber			GL840-WV, Input terminal B-56			
	ltage	(The second s		cale)	± (0.05% of F.S. + 10µV)	± 0.1% of F.S. (Full Scale)		
		ure (Thermocouple) Measurement	Measurement accurat	01	Measurement accuracy	Measurement accuracy		
	libbe	range(*16)		Cy		weasurement accuracy		
	R/S	0 ≤ TS ≤ 100 °C	± 5.2 °C		± 4.5 °C	± 5.2 °C		
		100 < TS ≤ 300 °C	± 3.0 °C		± 3.0 °C	± 3.0 °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. + 2.0		± 2.2 °C	± (0.05% of rdg. + 2.0 °C)		
	в	400 ≤ TS ≤ 600 °C	± 3.5 °C	- /	± 3.5 °C	± 3.5 °C		
			± (0.05% of rdg. + 2.0) °C)	± 2.5 °C	± (0.05% of rdg. + 2.0 °C)		
	к		± (0.05% of rdg. + 2.0			± (0.05% of rdg. + 2.0 °C)		
	L	-100 < TS ≤ 1370 °C	± (0.05% of rdg. + 1.0) °C)	± 0.8 °C	± (0.05% of rdg. + 1.0 °C)		
	E		± (0.05% of rdg. + 2.0		± 1.0 °C	± (0.05% of rdg. + 2.0 °C)		
			± (0.05% of rdg. + 1.0			± (0.05% of rdg. + 1.0 °C)		
	Т		± (0.1% of rdg. + 1.5		± 1.5 °C	± (0.1% of rdg. + 1.5 °C)		
		-100 < TS ≤ 400 °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		
			± (0.05% of rdg. + 1.0		± 0.6 °C	± (0.05% of rdg. + 1.0 °C)		
	N	-200 ≤ TS < 0 °C	± (0.1% of rdg. + 2.0		± 2.2 °C	± (0.1% of rdg. + 2.0 °C)		
	14/	0 ≤ TS ≤ 1300 °C	± (0.1% of rdg. + 1.0		± 1.0 °C ± 1.8 °C	± (0.1% of rdg. + 1.0 °C)		
	W R.J.C.	0 ≤ TS ≤ 2000 °C	± (0.1% of rdg. + 1.5 ± 0.5 °C	°C)	± 0.3 °C	± (0.1% of rdg. + 1.5 °C) ± 0.5 °C		
То		ure (RTD)(*17)	1 0.5 0		1 0.0 0	10.5 0		
	Type		Measurement accura	cv	Measurement accuracy	Measurement accuracy		
	.,	(*16)		-,	,			
	Pt100	-200 ≤ TS ≤ 100 °C	± 1.0 °C		± 0.6 °C	N/A		
		100 < TS ≤ 500 °C			± 0.8 °C			
		500 < TS ≤ 850 °C			± 1.0 °C			
	Pt1000	$-200 \le TS \le 100 \ ^\circ C$	± 0.8 °C		± 0.6 °C			
		100 < TS ≤ 500 °C			± 0.8 °C			
	JPt100	-200 ≤ TS ≤ 100 °C	± 0.8 °C		± 0.6 °C	_		
		100 < TS ≤ 500 °C	01 D II I II		± 0.8 °C			
VD cor		Deturger (c) (()) of the measuring full range)		
Maximu		Between (+) / (-)	20 mV to 2 V range: 6		-			
nput vo	Jilage	Channels ((-) / (-))	5 V to 100 V range: 1 60 Vp-p	το νμ	600 Vp-p	2 V to 100 V range: 110 Vp-p 60 Vp-p		
		Channel / GND	60 Vp-p		300 Vp-p	60 Vp-p		
Max. vo	oltage		350 Vp-p (1 minute)		600 Vp-p (1 minute)	350 Vp-p (1 minute)		
withsta		Channel / GND	350 Vp-p (1 minute)		2300 Vrms AC (1 minute)	350 Vp-p (1 minute)		
		Accessories						
tem	lo anc		Model number	Desc	ription			
	rminal	(Multi-input)			input terminal, multi-input	type, for GL840		
		(Withstand voltage)				high-voltage type, for GL840		
· ·		put terminal			unit for input terminal (B-5			
		ble for extension			e to connect GL840 and B-	1.		
ermina			B-567-20	Cable	e to connect GL840 and B-	566, 2 m long		
Battery					argeable Lithium-ion batte			
		ail (GL840 main body)				ody), for GL840, Build-to-order		
Bracket for DIN rail (extension terminal)						base), for GL840, Build-to-order		
		able for GL series			ong (no clip on end of cabl			
nput/O	DC drive cable		B-514	2 m long (no clip on end of cable)				
nput/O)C driv				With 3 m long signal cable (with power plug)				
nput/O)C driv Iumidit	ty sense		B-530					
nput/O OC driv Iumidit Shunt re	ty sens esistor	or	B-530 B-551-10	250 ol				
nput/O OC driv Iumidit Shunt re AC pow	ty sens esistor ver ada	or pter	B-530 B-551-10 ACADP-20	250 ol Input	: 100 to 240 V AC, Output:	24 V DC		
nput/O OC driv Iumidit Shunt re AC pow Temp &	ty sense esistor ver ada Humid	pter ity sensor	B-530 B-551-10 ACADP-20 GS-TH	250 ol Input Temp	: 100 to 240 V AC, Output: perature and humidity meas	24 V DC surement, for GL840		
nput/O OC driv lumidit Shunt re C pow emp & lumina	ty sense esistor ver ada Humid ince & l	pter lity sensor JV sensor	B-530 B-551-10 ACADP-20 GS-TH GS-LXUV	250 ol Input Temp Illumi	: 100 to 240 V AC, Output: berature and humidity meas nance and UV measurement	24 V DC surement, for GL840 t, cable 20cm long, for GL840		
nput/O OC driv lumidit Shunt re AC pow cemp & lumina Carbon	ty sensi esistor ver ada Humid ince & l Dioxid	pter ity sensor	B-530 B-551-10 ACADP-20 GS-TH GS-LXUV GS-CO2	250 ol Input Temp Illumi CO2	: 100 to 240 V AC, Output: berature and humidity meas nance and UV measurement measurement, cable 20cm	24 V DC surement, for GL840 t, cable 20cm long, for GL840 long, for GL840		
nput/O OC driv lumidit Shunt re C pow emp & lumina Carbon	ty sensi esistor ver ada Humid ince & l Dioxid ration &	pter ity sensor JV sensor e (CO2) sensor	B-530 B-551-10 ACADP-20 GS-TH GS-LXUV GS-CO2 GS-3AT	250 ol Input Temp Illumi CO2 Accel	: 100 to 240 V AC, Output: berature and humidity meas nance and UV measurement measurement, cable 20cm eration and temp. measureme	24 V DC surement, for GL840 t, cable 20cm long, for GL840 long, for GL840 ent, cable 20cm long, for GL840		
nput/O OC driv lumidit Shunt re C pow emp & lumina Carbon Acceler 'hermis	ty sensi esistor ver ada Humid ince & l Dioxid ration & stor inp	pter ity sensor JV sensor e (CO2) sensor Temp sensor	B-530 B-551-10 ACADP-20 GS-TH GS-LXUV GS-CO2 GS-3AT GS-4TSR	250 ol Input Temp Illumi CO2 Accel Temp	: 100 to 240 V AC, Output: berature and humidity meas nance and UV measurement measurement, cable 20cm eration and temp. measurement measurement (using a Thermis	24 V DC surement, for GL840 t, cable 20cm long, for GL840 long, for GL840 ent, cable 20cm long, for GL840 tor), cable 20cm long, for GL840		
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nput/O OC driv Humidit Shunt re AC pow Temp & Ilumina Carbon Acceler Thermis Thermis	ty sense esistor ver ada Humid Ince & U Dioxid ration & stor inp stor ser stor ser	pter ity sensor JV sensor e (CO2) sensor Temp sensor ut terminal usor (Normal type)	B-530 B-551-10 ACADP-20 GS-TH GS-LXUV GS-CO2 GS-3AT GS-4TSR GS-103AT-4P GS-103JT-4P	250 ol Input Temp Illumi CO2 Accel Temp Temp	: 100 to 240 V AC, Output: erature and humidity meas nance and UV measurement measurement, cable 20cm eration and temp. measurement (using a Thermis erature sensor (40 to 105 °C), erature sensor (40 to 120 °C),	24 V DC surement, for GL840 it, cable 20cm long, for GL840 Iong, for GL840 ent, cable 20cm long, for GL844 tor), cable 20cm long, for GL844 am long, 4pcs/set, for GS-4TSI 3m long, 4pcs/set, for GS-4TSI		
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nput/O OC driv Humidit Shunt re AC pow Femp & Ilumina Carbon Acceler Fhermis Fhermis AC curr AC curr	ty sense esistor ver ada Humid unce & U Dioxid ation & stor inp stor ser stor ser rent ser rent ser	pr pter ity sensor // Sensor e (CO2) sensor Temp sensor ut terminal usor (Normal type) usor (adapter	B-530 B-551-10 ACADP-20 GS-TH GS-LXUV GS-C02 GS-3AT GS-103AT-4P GS-103AT-4P GS-103AT-4P GS-103AT-4P GS-103AT-4P GS-DPA-AC GS-DPA-AC GS-AC50A	250 ol Input Temp Illumi CO2 Accel Temp Temp Curre Curre	: 100 to 240 VAC, Output: terature and humidity measurement mance and UW measurement measurement, cable 20cm eration and temp. measurement measurement (using a Thermis erature sensor (-40 to 105 °C), erature sensor (-40 to 120 °C), nt measurement (using a CT int sensor (CT) 50A, cable :	24 V DC surement, for GL840 (, cable 20cm long, for GL840 long, for GL840 long, for GL840 long, dog, for GL84 3m long, 4pcs/set, for GS-4TSI 3m long, 4pcs/set, for GS-4TSI 3m long, 4pcs/set, for GS-4TSI), cable 20cm long, for GS-DPA-AC		
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*13. 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.
*14. Subject to the following conditions:

Room temperature is 23 °C ± 5 °C.
When 30 minutes or more have elapsed after power was turned on.
Filter is set to 10.
Campiling rate is set to 1 sec, using 20-channel in GL840-M, 10-channel in GL840-WV and 10-channel in GL240.
GND terminal is connected to ground.

*15. Wire size of thermocouple used is 0.32mm diameter in the T or K type and 0.65mm diameter in other types.
*17. Supports 3-wire type sensor.

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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 Items mentioned 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 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.

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