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

# **New Function!**

- · Checksum (data tamperproof) function
- Backup to FTP server/storage device in CSV format (Firmware Ver. 1.43 or later.)



# **Multi-Input Model**

midi LOGGER GL840-M



# High Voltage Withstand Model

midi LOGGER GL840-WV



# 10-Channel Portable Model

midi LOGGER GL240



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 flow.

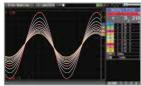
Voltage Ranges from 20mV to 100V Thermocouple type: R, S, B, K, E, T, J, N, W RTD types (for GL840 only): Pt100, Pt1000, JPt100 Humidity 0 to 100%RH - using optional sensor (B-530)



\* 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.



eform display (Analog + Digital)



Digital display



Dual display (Current + Past)

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Bar chart (Integrated data in a stacked bar chart)

# 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
Model	Number	of channel	1	2	5	10	20	50	100	200
GL840	Measuring	Voltage	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GL840	Measuring	Temperature	N/A	N/A	N/A	Yes	Yes	Yes	Yes	Yes
GL240	Measuring	Voltage	Yes	Yes	Yes	Yes	Yes(10ch)	Yes(10ch)	Yes(10ch)	Yes(10ch)
GL240	Measuring	Temperature	N/A	N/A	N/A	Yes	Yes(10ch)	Yes(10ch)	Yes(10ch)	Yes(10ch)

<sup>\*</sup> 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

# **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	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

# 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.

# **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.

The GL100-WL is used combining with the GL840/GL240.

# 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.

# **■** 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. \*The backuped file can be deleted. Firmware Ver. 1.44 or later. (It is available only for GL840)

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 température measurement.

#### Multi-input type Withstand-voltage Withstand voltage & Accuracy (B-564) type (B-565) 20 mV to 100 V Input voltage range 20 mV to 100 V Voltage Max. voltage (Input - GND) 60 Vp-p 300 Vp-p Thermocouple R, S, B, K, E, T, J, N, W (WRe5-26) Temp RTD (Resistance Temp Detector) Pt100 (IEC751), Pt1000 (IEC751), JPt100 (JIS) Voltage ± 0.1% of F.S. $\pm (0.05\% \text{ of FS} + 10\mu\text{V})$ Accuracy Temperature\* ± 1.55 °C

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

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 measurements.

# **Expandable up to 200 channels**

Standard configuration has 20 analog input channels. It is expandable to 200 channels by adding the optional 20 channels 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 channels 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 terminal base unit (B-566).



Input terminal unit (B-564/565)

connects to the GL840 using the 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.



Extension terminal base (B-566) & (B-564/565)

# onfiguration for additional channels

comigaration for additional chai	IIICIS			
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

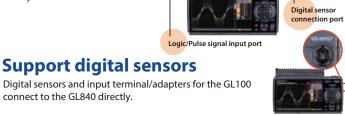
Input terminal blocks can be connected directly (in daisy chain), or using the B-565 cable(s).

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

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







# 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

# connection cable.

# High performance software with useful functions for the PC (GL100 240 840-APS)



GL240





(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, 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.



input port

Easily creatable schedule table using only a 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.

# **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.

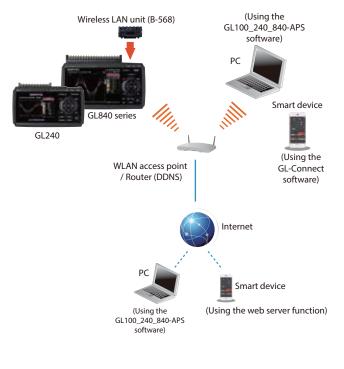
# ■ Combining GL100-WL and GL240/GL840

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

# Smart device (Tablet or Smart phone) WLAN access point / Router Wireless LAN unit (B-568) GL840 series

# For PC (GL100\_240\_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
- Data format conversion
- File operation And

# And more!

# 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.





\* Please type "graphtec"

to search for the app.

Number of ana External input/		Description
-yternal innut+/	alog input channels	10 channels
		Trigger or Sampling (1 channel), Logic/Pulse (4 channels)
output (*1) Sampling into	Output (*3)	Alarm (4 channels)  10 ms to 1 hour (10ms to 50ms: voltage only) (*4), External signal
	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-or
	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
unction	(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, 50M 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)
	Maximum number	Maximum input frequency: 50kHz
	of pulse inputs	Maximum number of count : 50kC/sampling (16-bit counter)
Calculation	Between channels	Addition, Subtraction, Multiplication, and Division for analog input
unction	Statistical	Select two calculations from Average, Peak, Maximum, Minimum, RMS
Search functi	on	Search for analog signal levels, values of logic or pulse or alarm point
		in captured data
nterface to P		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)
Data save	Saved contents Capture destination	Captured data, Setting conditions, Screen copy Internal memory or SD memory card
unction	Captured data	Settings, Screen data, Measurement data, Integrated bar graph data(pag
	Backup Interval	Off, 1, 2, 6, 12, 24 hours
	Backup Destination	Internal memory • SD memory card • FTP
	File Type	GBD • CSV
Checksum fu		OFF: The checksum is not applied to the data file.
The checksum only for GBD f		ON: The checksum is applied to the data file. The checksum verification can be done either on main unit or GL-Connection (*
Capturing m		Mode: Normal, Ring, Relay
Lapturing in	bue	Ring: Saves most recent data (Number of captured data: 1000 to 2000000 points) (*1
		Relay: Saves data to multiple files without losing data until data capturing is stoppe
Replay Data		Replays captured data that was saved in the GL240 (in GBD or CSV forma
Scaling (Engine	eering unit) function	Measured value can be converted to the specified engineering unit
		Analog voltage: Converts using four reference points (gain, offset)
		Temperature: Converts using two reference points (offset)
		Pulse count: Converts using two reference points (gain)
Action during	g data capture	Displaying parst data (using dual display mode (Current + Past data))     Hot swapping the SD memory card
		Hot-swapping the SD memory card     Saving data in between cursors
Display (LCD)	Size	4.3-inch TFT color LCD (WQVGA: 480 x 272 dots)
	Language	English, French, German, Chinese, Korean, Russian, Spanish, Japanese
	Information (*11)	Waveform in Y-T with digital values, Waveform only, Digital value, Digital value
		and statistics values, Bar chart
Operating en	vironment	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 accessor
	DC power Battery pack	8.5 to 24 V DC (DC drive cable (option B-514) is required)  Mountable battery pack (battery pack (option B-569): 7.2V DC, 2900mAl
Power consur		Max. 36 VA
		Approx.194 x 121 x 46 mm (with the cover)
Excluding pro		
		Approx. 634 g (the cover is attached)
	A NIit / a matical	n) specifications
Weight (*13)		Description
Weight (*13) Wireless L	AN Unit (optio	
Weight (*13) Wireless La Item		B-568
Weight (*13) Wireless La Item Model numb	er	GL840, GL240
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Weight (*13) Wireless La Item Model numb Supported G Communicat	er L series ion method	GL840, GL240 Wireless communication (using radio waves in the 2.4GHz band) IEEE802.11b/g/n WP5: Push button or PIN method
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Weight (*13) Wireless L tem Model numb Supported G Communicat	er L series ion method	GL840, GL240 Wireless communication (using radio waves in the 2.4GHz band) 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 rad
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Weight (*13) Wireless L. Item Model numb Supported G Communicat Supported W Installed loca Function  Connected nu Software S Item Model name Supported G Supported G Supported Installed I	er L series ion method ILAN system  whition  where of GL100-WL  pecifications f  sevice  mits & channels trol  Saved to PC Saved to GL unit formation  pecifications f  sevice  pecifications f	GL840, GL240 Wireless communication (using radio waves in the 2.4GHz band) 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 rad communication) Attaches to the SD card slot on the GL840/GL240 (*7) Access Point mode: Communicate with the GL100-WL as a remote sense (captured data in the GL100-WL is transferred to GL840/GL240) Station mode: Communicate with PC or Smart device (control GL840/GL240) Station mode: Communicate with PC or Smart device (control GL840/GL240) Station mode: Communicate with PC or Smart device (control GL840/GL240 ar transfer the data from GL840/GL240) GL840: Up to 5 units of the GL100-WL GL240: 1 unit of the GL100-WL  Or PC  Description GL100_240_840-APS Windows 10, 8.1, 7 GL840 (USB, Ethernet, WLAN), GL240 (USB, WLAN), GL100 (USB, WLAN) Control the GL series, Real-time data capture, Replay data, and Data format conversio Up to 1000 channels total, Up to 4 groups (number of units is limited by mode Input condition, Captuering condition, Trigger/Alarm condition, Report, et 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 replay only), Two display for the current and past, Statistical caliculation, and Integrated value in a bar cha Converting data format to CSV from GBD binary, merge multiple data fil in the time axis or as an additional channel Send e-mail to the specified address when the alarms occur Maximum, Minimum, and Avarage during data capturing Creates the daily or monthly report automatically  Or Smart device Description GL-Connect Android 4.1 to 8.0, iOS 9/10/11 GL840 (WLAN), GL240 (WLAN), GL100 (WLAN) Control the GL series, Display measured data in waveform or digital value

A/D converter  Measurement   Voltag accuracy(*14)   Tempe (Thermot Measurement)   Tempe (Thermot		Description
Type of input termir Measurement   Voltaga   Therm   Humic Filter   Measurement   Voltaga   Therm   Humic Filter   Therm   Tempe   Tempe   Therm   Tempe   Therm   Tempe   Therm   Tempe		All channels isolated balanced input, Scans channels for sampling
A/D converter  Measurement   Voltag   Therm   Humic   Humic   Filter   Wesuracy(*14)    A/D converter   Maximum   Tempe   Input voltage   Max. voltage   Max	nal	Screw terminal (M3 screw)
A/D converter  Measurement   Voltag accuracy(*14)   Tempe (Thermo  A/D converter  Maximum   Betwe input voltage   (+) / (Chann   Chann		20, 50, 100, 200, 500 mV, 1, 2, 5, 10, 20, 50, 100 V, and 1-5V F.S. (Full Scale)
A/D converter  Measurement   Voltag accuracy(*14)   Tempe (Thermoter    A/D converter    Maximum   Betwe   (+) / (-    Chann   Chann    Max. voltage   Betwere (withstand)    **In input/Output cable    **Input signal: yee vo    -*Inreshold: App    **Input signal: yee vo    -*Inreshold: App    **Input signal: yee vo    -*Input sig	nocouple	Type: K, J, E, T, R, S, B, N, and W (WRe5-26)
A/D converter  Measurement   Voltag accuracy(*14)   Tempe (Theme		0 to 100 % RH - using the humidity sensor (option B-530)
A/D converter  Maximum   Betwe   Input voltage   Max. voltage   Betwere   Withstand   Chann		Off, 2, 5, 10, 20, 40 (moving average in selected number)
A/D converter  Maximum Input voltage (+) / (	ge	± 0.1% of F.S. (Full Scale)
A/D converter  Maximum   Betwe   input voltage   (+) / (-) Chann   Chann    Max. voltage   (withstand)   Chann    *1. Input/output cabl   Voltage range: - Signal type: Voltage range: - Voltage		Type   Measurement range   Measurement accuracy
A/D converter  Maximum Betwe (+) / (- Chann Chan	ocouple) (*15)	(TS: Temp Sense)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		R 0≤TS≤100°C ± 5.2 °C
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		100 < TS ≤ 300 °C ± 3.0 °C
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		300 < TS ≤ 1600 °C ± (0.05% of rdg. + 2.0 °C)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		S 0≤TS≤100°C ± 5.2 °C
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		100 < TS ≤ 300 °C ± 3.0 °C
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		300 < TS ≤ 1760 °C ± (0.05% of rdg. + 2.0 °C)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		B 400 ≤ TS ≤ 600 °C ± 3.5 °C
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		600 < TS ≤ 1820 °C ± (0.05% of rdg. + 2.0 °C)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		K   -200 ≤ TS ≤ -100 °C   ± (0.05% of rdg. + 2.0 °C)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		-100 < TS ≤ 1370 °C ± (0.05% of rdg. + 1.0 °C)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		E
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		-100 < TS ≤ 800 °C ± (0.05% of rdg. + 1.0 °C)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		T $-200 \le TS \le -100 \degree C \pm (0.1\% \text{ of rdg.} + 1.5 \degree C)$
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		-100 < TS ≤ 400 °C ± (0.1% of rdg. + 0.5 °C)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		J -200 ≤ TS ≤ -100 °C ± 2.7 °C
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		-100 < TS ≤ 100 °C ± 1.7 °C
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		100 < TS ≤ 1100 °C ± (0.05% of rdg. + 1.0 °C)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		N -200 ≤ TS < 0 °C ± (0.1% of rdg. + 2.0 °C)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		0 ≤ TS ≤ 1300 °C ± (0.1% of rdg. + 1.0 °C) W 0 < TS < 2000 °C + (0.1% of rdg. + 1.5 °C)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		1 0 2 13 2 2000 C 2 (0.170 01 rag. 1 1.3 C)
Maximum Input voltage   (+) / (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)		12 013 C
mput voltage   (+) / (Chann   Chann	oon	Sigma-Delta type, 16 bits (effective resolution: 1/40000 of the measuring full range)
Max. voltage   Getwee (withstand)		20 mV to 1 V range: 60 Vp-p, 2 V to 100 V range: 110 Vp-p
Max. voltage Betwee (withstand) Chann **  1. Input/Output cabl **  1. Input signal; **  1. Voltage arage: **  1. Voltage: Max. **  2. Voltage: Max. **  3. Output signal Ope: **  2. Voltage: Max. **  4. Minimum interval **  5. Output port can be **  6. The built-in Flash **  7. SD memory card c **  8. When the backup if ring capture or e It may take some to robackup data is! **  9. Waveform viewer **  10. Size of the capture **  11. Display mode is sw displayed channel be effective from t **  12. Rating under max **  13. Excludes AC adapt **  14. Subject to the follor **  14. Subject to the follor **  14. Subject to the follor **  15. Rom tempera **  16. The max **  17. Facility **  18. Subject to the follor **  19. Rom tempera **  19. R	nels ((-) / (-))	
Max. voltage   Betwee (withstand)   Chann	nel / GND	60 Vp-p
(withstand)   Chann  *1. Input/Output cabl  *2. Input signal;	en channels	250 \/n n (1 minuto)
*1. Input/Output cabl *2. Input signal;	el / GND	350 Vp-p (1 minute)
*2. Input signal;		on B-513) is required to connect the signal.
Voltage range: Signal type: Vo Threshold: App  *3. Output signal: Ope All Maximum ratir Voltage: Max.  *4. Minimum interval *5. Output port can b  *6. The built-in Flash n Please refer to the  *7. SD memory card c  *8. When the backup If ring capture or It may take some t  or backup data is 1  *9. Waveform viewer  *10. Size of the capture  *11. Display mode is w  displayed channel be effective from t  *12. Rating under maxi  *14. Subject to the follo  *Room tempera  *14. Subject to fine follo  *Room tempera  *16. An on minut  *17. Subject to fine follo  *18. Subject to fine follo  *19. Subject to fine follo  *19. Subject to fine follo  *19. Subject to fine follo  *10. Subject to fine fine fine fine fine fine fine fine	ic for GE (option	51 5 515/13 required to connect the signal.
**. Threshold: App  *3. Output signal: Ope  *Amaximum ratir  * Voltage: Max.  *4. Minimum interval  *5. Output port can  *6. The built-in Flash in  *7. So memory card c  *8. When the backup  if ring capture or e  it may take some t  or backup data is  *9. Waveform viewer  *10. Size of the capture  *11. Display mode is so  displayed channel  be effective from t  *12. Rating under max  *13. Excludes AC adapt  *14. Subject to the follo  *Room tempera  *Nhen 30 minut		
*3. Output signal: Ope Amaximum ratir Voltage: Max. *4. Minimum interval *5. Output port can be *6. The built-in Flash in Please refer to the *7. SD memory card c *8. When the backup If ring capture or t It may take some t or backup data is! *9. Waveform viewer *10. Size of the capture *11. Display mode is sw stiglayed channel be effective from t *12. Rating under maxiful size *13. Excludes AC adapt *14. Subject to the follor. *Room tempera When 30 minut	oltage, Open c	ollector, Contact (relay) Hysteresis: Approx. 0.5V (2.5V to 3V))
«Maximum ratir Voltage: Max. *4. Minimum interval '5. Output port can '6. The built-in Flash r Please refer to the Please refer to the SD memory card c *8. When the backup If ring capture or e It may take some t or backup data is I *9. Waveform viewer *10. Size of the capture *11. Display mode is sw displayed channel be effective from t *12. Rating under max *13. Excludes AC adapt *14. Subject to the follo - Room tempera - When 30 minut		oull-up to 5V by 10kΩ resistor)
*4. Minimum Interval *5. Output port can b *6. The built-in Flash r Flease refer to the *7. SD memory card c *8. When the backup if ring capture or e It may take some t or backup data is I *9. Waveform viewer *10. Size of the capture *11. Display mode is sw displayed channel be effective from t *12. Rating under max *13. Excludes AC adapt *14. Subject to the follo - Room tempera - When 30 minut	ng of the outp	ut transistor>
*5. Output port can b  6. The built-in Flash in  7. SD memory card c  *8. When the backup  18 ining capture or e  19 t may take some t  9. Waveform viewer  10. Size of the capture  11. Display mode is w  displayed channel  be effective from t  12. Rating under maxi  13. Excludes AC adapt  4. Subject to the folle  4. Subject to the folle  4. When 30 minut		t: Max. 0.5A, • Collector dissipation: Max. 0.2W
<ul> <li>**(6. The built-in Flash Please refer to the Augustus of the Please refer to the Augustus of the Please refer to the Augustus of the Please refer to the Plea</li></ul>	e specified in	each input channel.
Please refer to the Please refer to the SD memory card c *8. When the backup If ring capture or e It may take some t 19. Waveform viewer *10. Size of the capture *11. Display mode is so displayed channel be effective from t *12. Rating under max *13. Excludes AC adapt *14. Subject to the follo - Room tempera - When 30 minut	memory is ava	silable for units with serial numbers C604xxxxx or later.
*8. When the backup if ring capture or et the may take some t or backup data is 1*9. Waveform viewer *10. Size of the capture *11. Display mode is sw displayed channel be effective from t *12. Rating under max *13. Excludes AC adapt *14. Subject to the follo - Room tempera - When 30 minut	e website for n	nore information.
If ring capture or e It may takup data is I 9. Waveform viewer 110. Size of the capture 111. Display mode is sy displayed channel be effective from te 112. Rating under max 113. Excludes AC adapt 114. Subject to the follo	cannot be use	d on the second slot while the wireless LAN unit (option B-568) is used. ormat, the firmware must be Ver. 1.43 or later.
It may take some t or backup data is I *9. Waveform viewer: *10. Size of the capture *11. Display mode is sv displayed channel *12. Rating under maxi *13. Excludes AC adapt *14. Subject to the foll *Room tempera •When 30 minut	external samp	ling is On, the backup function is not available.
*9. Waveform viewer: *10. Size of the capture *11. Display mode is sy displayed channel be effective from t *12. Rating under maxi *13. Excludes AC adapt *14. Subject to the foll • Room tempera • When 30 minul	time to save th	ne data if many channels are used, the sampling speed is fast, the backup duration is long
*10 . Size of the capture *11. Display mode is sw displayed channel be effective from t *12. Rating under maxi *13. Excludes AC adapt *14. Subject to the follc • Room tempera • When 30 minut	large.	iL series. The software is free of charge and available to downloaad on Graphtec website
*11. Display mode is sv displayed channel be effective from t *12. Rating under maxi *13. Excludes AC adapt *14. Subject to the folk • Room tempera • When 30 minut		imited to 1/3 of available memory.
*12. Rating under maxi *13. Excludes AC adapt *14. Subject to the follo • Room tempera • When 30 minut	witched every	time the dedicated key is pressed. In magnified digital value mode, the
<ul> <li>*12. Rating under maxi</li> <li>*13. Excludes AC adapt</li> <li>*14. Subject to the folloon</li> <li>Room tempera</li> <li>When 30 minut</li> </ul>		be specified. In the waveform display mode, the changing of the time scale will
*13. Excludes AC adapt *14. Subject to the follo • Room tempera • When 30 minut		ie next displayed data. consumption using the AC adapter, with LCD display on, and battery pack being charged
*14. Subject to the follo • Room tempera • When 30 minut		
<ul> <li>When 30 minut</li> </ul>	lowing conditi	ons:
		ave elapsed after power was turned on.
		using 10-channel.
<ul> <li>GND terminal is</li> </ul>	is connected t	o ground.
*15. Wire size of therm	ocouple used	is 0.32mm diameter in the T or K type and 0.65mm diameter in other types.

<b>Options and Accessories</b>				
Item	Model number	Description	GL840 Series	GL240
Input/Output cable for GL series	B-513	2 m long (no clip on end of cable)		<b></b>
DC drive cable	B-514	2 m long (no clip on end of cable)	~	<b></b>
Humidity sensor	B-530	With 3 m long signal cable (with power plug)	<u> </u>	<b></b>
Bracket for DIN rail (extension terminal)	B-540	Bracket for DIN rail (Input terminal), Build-to-order	~	
Shunt resistor	B-551-10	250 ohms(*16) (it converts the signal to the "1-5V" from the "4-20mA".)	~	~
Input terminal (Multi-inputs)	B-564	20ch input terminal, multi-input type	<b>~</b>	
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 565)		
Connection cable	B-567-05	Cable to connect GL840 and B-566, 50 cm long	<b>/</b>	
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)	<b>/</b>	<b>/</b>
Bracket for DIN rale (GL840 main body)	B-570	Bracket for DIN rail (GL840 main body), Build-to-order	~	
Cover	B-577	Rubber protector (for replacement)		<b>/</b>
Cover	B-578	Rubber protector (for replacement)		
AC power adapter	ACADP-20	Input: 100 to 240 V AC, Output: 24 V DC		<b>_</b>
AC current sensor (50A)	GS-AC50A	Current sensor (CT) 50A, cable 20cm long(*17)		
AC current sensor (100A)	GS-AC100A	Current sensor (CT) 100A, cable 20cm long(*17)		
AC current sensor (200A)	GS-AC200A	Current sensor (CT) 200A, cable 20cm long(*17)	<b>~</b>	
AC current sensor adapter	GS-DPA-AC	Current measurement (using a CT), cable 20cm long	~	
Carbon Dioxide (CO2) sensor	GS-CO2	CO2 measurement, cable 20cm long	<b>✓</b>	
Illuminance & UV sensor	GS-LXUV	Illuminance and UV intensity measurement, cable 20cm long	~	
Temp & Humidity sensor	GS-TH	Temperature and humidity measurement		
Acceleration & Temp sensor	GS-3AT	Acceleration and temperature measurement, cable 20cm long	<b>~</b>	
Thermistor input terminal	GS-4TSR	Temp measurement (using a Thermistor), cable 20cm long	~	
Thermistor sensor (Normal type)	GS-103AT-4P	Temperature sensor (-40 to 105 °C), 3m long, 4pcs/set(*18)		
Thermistor sensor (Ultrathin type)			<b>~</b>	
Voltage & Temp input terminal		Voltage or Temperature (using a thermocouple), cable 20cm long	<b>~</b>	
Module extension cable	GS-EXC	Extension cable for the sensor/terminal/adapter module, 1.5m long	~	
Dual port adapter	GS-DPA	Connect up to 2 sensor modules		

<sup>\*16.</sup> The model includes 10 pcs of the shunt resister per 1 box.

\*17. The sensors need to be applied with GS-DPA-AC for use.

\*18. The sensors need to be applied with GS-4TSR for use.

Canal Cana	GI 840 Mai	in unit specific	ations
Mouder of analog input channels   Qc hannels in standard configuration, Expandable up to 200 channels		m unit specific	
Number of analog input terminals   Up to 10 terminals (20 channels / terminal), standard config:1   Pype of analog input terminal   Multi-input type, Withstand-voltage type		er	
Type of nalog input terminal   Multi-input type, Withstand-voltage type	Number of ana	alog input channels	20 channels in standard configuration, Expandable up to 200 channels
Port for digital sensor   1 port for the sensor/input terminal/dapter of the GL100	Number of ana	alog input terminals	
External input/   Input. (*2)   Cutput. (*3)   Alarm (4 channels)			
output (*1) Output (*3) Alarm (a channels) Sampling interval Time scale of waveform display Tinger, Rigger action Alarm function Repeat action Off, On lauto rearmed) Trigger source Start or stop capturing data by the trigger Alarm function Trigger source Start or stop capturing data by the trigger Alarm function Alarm function Alarm output Repeat action Alarm output Pube input Repaid for for analog signal, Alarm, External, Clock, Week or Time Stop: Off, Measured signal, Alarm, External, Clock, Week or Time Stop: Off, Measured signal, Alarm, External, Clock, Week or Time Stop: Off, Measured signal, Alarm, External, Clock, Week or Time Stop: Off, Measured signal, Alarm, External, Clock, Week or Time Stop: Off, Measured signal, Alarm, External, Clock, Week or Time Stop: Off, Measured signal, Alarm, External, Clock, Week or Time Stop: Off, On lauto rearmed) Condition Setting Counts The number of pulses per sampling interval and converts to promite of pulses from the start of measurement Sol. 500, 5000,			
Sampling interval   10 ms to 1 hour (10ms to 50ms voltage only) (*4), External signal Time scale of waveform display 1 set. to 24 hour /division   Trigger, action   Trigger action   Trigger action   Trigger action   Trigger action   Trigger source   Trigger source   Trigger source   Trigger source   Start: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time   Stop: Off, Measured signal, Alarm, External, Clock, Week or Time			
Times cale of waveform display   1 sec. to 24 hour /division   1 figger action   1 f			
Trigger, Alarm function Repeat action Off, On fauto rearmed) Trigger source Start: Off, Measured signal, Alarm, External, Clock, Week or Time Stop: Off, Measured signal, Alarm, External, Clock, Week or Time Stop: Off, Measured signal, Alarm, External, Clock, Week or Time Condition Setting Combination: AND / Orf Analog signals: 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 Logic signal: Pattern (combination condition occurs in the input signal if high or low) Pulse input Rotation count (RPM) mode Accumulating Count mode Accumulating Count mode Accumulating Count mode So, 500, 5000, 5			
Alarm function 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: AND 7 OR Analog signal: Risting (High), Falling (Low), Window-in, Window-out Logic signal: Risting (High), Falling (Low), Window-out Logic signal: Risting (High), Falling (Low) Risting (Low) Window-out Logic signal: Risting (High), Falling (Low) Risting (Low) Risting (Low) Window-out Risting (Low) Window			
Trigger source Statt: Off, Measured signal, Alarm, External, Clock, Week or Time Stop: Off, Measured signal, Alarm, External, Clock, Week or Time Stop: Off, Measured signal, Alarm, External, Clock, Week or Time Condition Setting Combination: AND / OR Analog signal: Rising (High), Falling (Low), Window-in, Window-out Logic signal: Pattern (combination of each input signal if on you pulse for count; Rising (High), Falling (Low), Window-out Logic signal: Pattern (combination of each input signal if on your signal when alarm condition occurs in the input signal if of Signal when alarm condition occurs in the input signal if of Signal when alarm condition occurs in the input signal if of Signal when alarm condition occurs in the input signal if of Signal when alarm condition occurs in the input signal if of Signal when alarm condition occurs in the input signal if on the set to Signal when alarm condition occurs in the input signal if on the set to Signal when alarm condition occurs in the input signal if on the set to Signal when alarm condition of pulses for one rotation can be set to Signal when alarm condition of pulses for met start of measurement Signal occurs in the sumber of pulses from the start of measurement Signal occurs in the set of			
Stop: Off, Measured signal, Alarm, External, Clock, Week or Time	Addition		
Condition Setting Combination: AND / OR Analog signals: 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-out Logic signal: Pattern (combination of each input signal in high or low) Pulse input signal (*5)  Outputs a signal when alarm condition occurs in the input signal (*5)  Accumulating (count mode So, 500, 500, 500, 500, 500, 500, 500, 50			
Logic signal: Pattern (combination of each input signal in high or low) Pulse input Pulse input (any here of count): Rising (High), Falling (Low), Window-in, Window-out Alarm output Outputs a signal when alarm condition occurs in the input signal (*5) Counts the number of pulses per sampling interval and converts to rpm (rotations per minute). Number of pulses for one rotation can be set to \$0,500,500,500,500,500,500,500,500,500,5		Condition Setting	
Pulse input Alarm output Outputs a signal when alarm condition occurs in the input signal (*5)   Pulse input Rotation count (RPM) mode (votations per minute), Number of pulses per sampling interval and converts to rpm (rotations per minute), Number of pulses for one rotation can be set to 50, 500, 5000, 500, 5000, 500, 5000 Fm/F5. (Frum/Full Scale)   Accumulating count mode Instant count mode So, 500, 5000, 500, 5000, 500, 5000 Fm/F5. (Frum/Full Scale)   Maximum number of pulses for me start of measurement 50, 500, 500, 500, 500, 500, 500, 500,			Analog signal: Rising (High), Falling (Low), Window-in, Window-out
Alarm output   Outputs a signal when alarm condition occurs in the input signal (*5)			Logic signal: Pattern (combination of each input signal in high or low)
Pulse input function  Rotation count (RPM) mode  Accumulating count mode 50, 500, 5000, 50K, 50K, 50M, 50M, 50M pmyf.Sc. (rpm,/Full Scale)  Accumulating count mode 50, 500, 5000, 50K, 50K, 50M, 50M, 50M c/F.S. (Counts/Full Scale)  Instant count mode 50, 500, 5000, 50K, 50K, 5M, 50M, 50M C/F.S. (Counts/Full Scale)  Maximum number of pulses per sampling interval 50, 500, 5000, 50K, 50M, 50M, 50M C/F.S. (Counts/Full Scale)  Maximum number of pulses per sampling interval 70, 500, 500, 500, 50K, 50M, 50M, 50M C/F.S. (Counts/Full Scale)  Maximum number of pulses per sampling interval 70, 500, 500, 500, 50K, 50M, 50M, 50M C/F.S. (Counts/Full Scale)  Maximum number of pulses per sampling interval 70, 500, 500, 500, 50K, 50M, 50M, 50M C/F.S. (Counts/Full Scale)  Maximum number of count: 50KC/sampling (16-bit counter)  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 in captured data  Interface to PC Ethernet (10 BASE-T/100 BASE-TX), USB (Hi-speed), WLAN (using B-568 option)  Storage Internal Built-in 4GB Flash Memory (*6)  External One 5D card slot (Supports 5DHC memory card, up to 32GB) (*7)  Saved contents Captured data 3esting conditions, Screen copy  Captured data 3esting conditions, Screen copy  Checksum function File Type GBD • CSV  Checksum funct			
function (RPM) mode (rotations per minute), Number of pulses for one rotation can be set to 50, 500, 500, 500, 500, 500, 500, 500,			
Sol. 500, 5006, 500k, 500k, 500k, 500k prom/ES. (rpm/Full Scale)	•		
Accumulating count mode	function	(RPM) mode	
Count mode		A 1.0	
Instant count			
Maximum number   Maximum nimber   Maximum nimber   Maximum nimber   Maximum nimber   of pulse inputs   Maximum nimber   of pulse inputs   Maximum nimber   of count: SORC/sampling (16-bit counter)			
Maximum number of pulse inputs   Maximum input frequency: 50kHz   Of pulse inputs   Maximum number of count: 50kC/sampling (16-bit counter)			
Of pulse inputs   Between channels   Addition, Subtraction, Multiplication, and Division for analog input   Statistical   Select two calculations from Average, Peak, Maximum, Minimum, RMS   Search 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 in captured data   Search for analog signal levels, values of logic or pulse or alarm point in captured data   Search for analog signal levels, values of logic or pulse or alarm point in captured data   Search for analog signal levels, values of logic or pulse or alarm point in captured data   Search for analog signal levels, values of logic or pulse or alarm point in captured values   Search for analog signal levels, values of logic or pulse or alarm point in captured values   Search for analog signal levels, values of logic or pulse or alarm point in captured values   Search for analog signal levels, values of logic or pulse or alarm point in captured values   Search for analog signal levels, values of logic or pulse or alarm point in captured value   Search for analog signal levels, values of logic or pulse or alarm point in captured value   Search for analog signal levels, values of logic or pulse or alarm point in captured values   Search for analog signal levels, values of logic or pulse or alarm point in captured value   Search for analog signal levels, values of logic or pulse or pulse or			
Calculation   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 in captured data   Interface to PC   Ethernet (10 BASE-T/100 BASE-TX), USB (Hi-speed), WLAN (using B-568 option)   Storage   Internal   Built-in 4GB Flash Memory (*6)   External   Saved contents   Captured data, Setting conditions, Screen copy   Data save   Captured data   Captured data, Setting conditions, Screen copy   Data save   Captured data   Settings, Screen data, Measurement data, Integrated bar graph data(page)   Data backup Backup Interval   Off, 1, 2, 6, 12, 24 hours   File Type   GBD · CSV   Checksum function   File Type   GBD · CSV   Checksum function   File Type   GBD · CSV   OFF: The checksum is not applied to the data file.   ON: The checksum is available only for GBD format.   The checksum is applied to the data file.   ON: The checksum wrification can be done either on main unit or GL-Connection (*9)   Relay: Saves data to multiple files without losing data until dada capturing is stopped   Replay data   Replays captured data that was saved in the GL840 (in GBD or CSV format)   Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10)   Relay: Saves data to multiple files without losing data until dada capturing is stopped   Nanalog voltage: Converts using two reference points (gain, offset)   File Type   The checksum is applied to specified engineering unit   Hortswapping the SD memory card   Saving data in between cursors   Pulse count: Converts using two reference points (gain)   Hortswapping the SD memory card   Saving data in between cursors   Pulse count: Converts using two reference points (gain)   Hortswapping the SD memory card   Saving data in between cursors   Pulse count: Converts using two reference points (gain)   Hortswapping the SD memory card   Saving data in between cursors   Pulse count: Converts using two reference points (gain)   Hortswapping the SD memory card   Sa			
Search function   Search for analog signal levels, values of logic or pulse or alarm point in captured data   Interface to PC   Ethernet (10 BASE-T/100 BASE-TX), USB (Hi-speed), WLAN (using B-568 option)	Calculation		
In captured data  Interface to PC  Storage   Internal   Ethernet (10 BASE-TX), USB (Hi-speed), WLAN (using B-568 option)  Storage   External   Sullt-in 4GB Flash Memory (*6)  External   One SD card slot (Supports SDHC memory card, up to 32GB) (*7)  Saved contents   Capture data, Setting conditions, Screen copy  Data save   Capture data   Captured data, Setting conditions, Screen copy  Data save   Captured data   Captured data   Settings, Screen data, Measurement data, Integrated bar graph data(page)  Data backup Backup Interval   Off, 1, 2, 6, 12, 24 hours  function(*8)   Backup Destination   Internal memory · SD memory card · FTP  File Type   GBD · CSV  Checksum function   File Type   GBD · CSV  Checksum function   OFF: The checksum is not applied to the data file.  ON: The checksum is available only for GBD format.   The checksum werification can be done either on main unit or GL-Connection (*9)  Replay data   Replays captured data that was saved in the GL840 (in GBD or CSV format)  Scaling (Engineering unit) function   Measured value can be converted to specified engineering unit   · Nanlogy voltage: Converts using four reference points (gain, offset)   · Temperature: Converts using two reference points (gain)   · Hot-swapping the SD memory card   · Saving data in between cursors  Display (LCD)   Size   T-inch TFT color LCD (WVGA: 800 x 480 dots)   English, French, German, Chinese, Korean, Russian, Spanish, Japanese   Information (*11)   Waveform in V-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment   Ot ot 45 °C, 5 to 85 % RH (non condensed)   (When operating with battery pack 0 to 40 °C, charging battery 15 to 35 °C)   Power sourc   AC adapter   100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard accessory)   DC power   Battery pack   Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)   Power consumption (*12)   Max. 38 VA   Kather   Power Consumption (*12)   Max. 38 VA   Kather   Max. 38 VA	function	Statistical	Select two calculations from Average, Peak, Maximum, Minimum, RMS
Interface to PC	Search functi	on	
Internal   Built-in 4GB Flash Memory (*6)		_	
External   Saved contents   Saved contents   Saved contents   Captured data, Setting conditions, Screen copy			
Saved contents   Captured data, Setting conditions, Screen copy			
Data save function	device		
Function Captured data Settings, Screen data, Measurement data, Integrated bar graph data(page) Data backup Backup Interval Off, 1, 2, 6, 12, 24 hours  Function(*8) Backup Destination Internal memory * SD memory card * FTP  File Type GBD * CSV  Checksum function The checksum is available only for GBD format. ON: The checksum is applied to the data file.  Onl: The checksum is available only for GBD format. The checksum werification can be done either on main unit or GL-Connection (*9)  Replay data Measured value can be converted to specified auntil dada capturing is stopped Measured value can be converted to specified engineering unit) function  Action during data capture Netsea of the surpline of the converted to specified engineering unit) Fibral Splaying past data (using four reference points (gain, offset) * Pulse count: Converts using two reference points (gain) * Hot-swapping the SD memory card * Saving data in between cursors  Display (LCD) Size 7-inch TFT color LCD (WVGA: 800 x 480 dots)  Language Information (*11) Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment 0 to 45 °C, 5 to 85 % RH (non condensed) (When operating with battery pack 0 to 40 °C, charging battery 15 to 35 °C)  Power sourc AC adapter 100 to 240 VAC, 50/60 Hz (1 pc of adapter is attached as standard accessory)  Max. 38 VA  External dimensions (Wx D x H, Approx. 246 x 161 x 58.2 mm (with the cover)	Data save		
Data backup   Backup Interval   Off, 1, 2, 6, 12, 24 hours   function(*8)   Backup Destination   Internal memory * SD memory card * FTP   File Type   GBD * CSV   Checksum function   OFF: The checksum is not applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum with file to the data file.   ON: The checksum with place in the data file.   ON: The checksum with place in the data file.   ON: The checksum with place in the data file.   ON: The checksum with place in the data file.   ON: The checksum with place in the data file.   ON: The checksum with place in the data file.   ON: The checksum with place in the data file.   ON: The checksum with place in the data file.   ON: The checksum with place in the data file.   ON: The checksum with place in the data file.   ON: The checksum is applied to the data file.   ON: The checksum with place in the data file.   ON: The checksum with place in the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is applied to the data file.   ON: The checksum is appl			
Function(*8) Backup Destination Internal memory • SD memory card • FTP File Type GBD • CSV Checksum function The checksum is available only for GBD format.  Capturing mode  Mode: Normal, Ring, Relay Ring: Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10) Relay: Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10) Relay: Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10) Relay: Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10) Relay: Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10) Relay: Saves data to multiple files without losing data until dada capturing is stopped Replay data  Replays captured data that was saved in the GL840 (in GBD or CSV format) Measured value can be converted to specified engineering unit - Analog voltage: Converts using from reference points (gain, offset) - Temperature: Converts using two reference points (gain)  Action during data capture - Hott-swapping the SD memory card - Saving data in between cursors  Display (LCD) Size - T-inch TFT color LCD (WVGA: 800 x 480 dots)  Language Information (*11) Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment  Ot 045 °C, 5 to 85 % RH (non condensed) (When operating with battery pack 0 to 40 °C, charging battery 15 to 35 °C)  Power sourc AC adapter DC power Battery pack Mountable two battery packs (battery pack (option 8-569): 7.2V DC, 2900mAh)  Power consumption (*12)  Max. 38 VA  External dimensions (W x D x H, Approx. 246 x 161 x 58.2 mm (with the cover)			Off, 1, 2, 6, 12, 24 hours
File Type			
The checksum is available only for GBD format.  Capturing mode  Mode: Normal, Ring, Relay Ring: Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10) Relay: Saves data to multiple files without losing data until dada capturing is stopped  Replay data  Replay data  Replays captured data (Number of capturing data: 1000 to 2000000 points) (*10) Relay: Saves data to multiple files without losing data until dada capturing is stopped  Replay captured data that was saved in the GL840 (in GBD or CSV format)  Scaling (Engineering unit) function  Resulted a data that was saved in the GL840 (in GBD or CSV format)  Action during data capture: Converts using two reference points (gain, offset)  - Pulse count: Converts using two reference points (gain, offset)  - Pulse count: Converts using two reference points (gain)  - Displaying past data (using dual display mode (Current + Past data))  - Hot-swapping the SD memory card  - Saving data in between cursors  - Saving data in between cursors  Trinch TFT color LCD (WVGA: 800 x 480 dots)  Language  English, French, German, Chinese, Korean, Russian, Spanish, Japanese  Information (*11)  Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  O to 45 °C, 5 to 85 % RH (non condensed)  (When operating with battery pack to 40 °C, charging battery 15 to 35 °C)  Power sourc  AC adapter  DC power  Battery pack  Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)  Power consumption (*12)  Max. 38 VA  External dimensions (W x D x H, Approx. 246 x 161 x 58.2 mm  (with the cover)		File Type	GBD • CSV
Only for GBD format. The checksum verification can be done either on main unit or GL-Connection (*9)  Mode: Normal, Ring, Relay Ring, Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10) Relay: Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10) Relay: Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10) Relay: Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10) Relay: Saves data to multiple files without losing data until dada capturing is stopped Replay data Replays captured data that was saved in the GL840 (in GBD or CSV format) Measured value can be converted to specified engineering unit Analog voltage: Converts using four reference points (gain, offset) - Temperature: Converts using two reference points (gain) - Pulse count: Converts using two reference points (gain) - Hot-swapping the SD memory card - Saving data in between cursors  Display (LCD) Size - Trinch TFT color LCD (WVGA: 800 x 480 dots) - Language - Information (*11) - Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment - Ot ot 45 °C, 5 to 85 % RH (non condensed) - (When operating with battery pack to 40 °C, charging battery 15 to 35 °C) - Power sourc - AC adapter - DC power - Battery pack - Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh) - Power consumption (*12) - Max. 38 VA - External dimensions (W x D + H, Approx. 246 x 151 x 58.2 mm - (with the cover)			
Capturing mode  Mode: Normal, Ring, Relay Ring: Saves most recent data (Number of capturing data: 1000 to 2000000 points) (*10) Relaip: Saves data to multiple files without losing data until dada capturing is stopped Replay data  Replays captured data that was saved in the GL840 (in GBD or CSV format) Measured value can be converted to specified engineering unit - handog voltage: Converts using four reference points (gain, offset) - Temperature: Converts using fwo reference points (gain, offset) - Pulse count: Converts using two reference points (gain) Action during data capture  Action during data capture - Hot-swapping the SD memory card - Saving data in between cursors Display (LCD) Size - Z-inch TFT color LCD (WVGA: 800 x 480 dots) - English, French, German, Chinese, Korean, Russian, Spanish, Japanese Information (*11) Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart Operating environment - Ot ot 45 °C, 5 to 85 °S, RH (non condensed) - (When operating with battery pack 0 to 40 °C, charging battery 15 to 35 °C) - Power sourc - AC adapter - DC power - Battery pack - Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh) - Power consumption (*12) - Max. 38 VA - External dimensions (W x D × H, - Rexcluding projections) - Mode: Norman Save Save Save Save Save Save Save Save			
Replay data  Replay data  Replay captured data (Number of capturing data: 1000 to 2000000 points) (*10) Relay. Saves data to multiple files without losing data until dada capturing is stopped  Replay captured data that was saved in the GL840 (in GBD or CSV format)  Scaling (Engineering unit) function  Results of the data that was saved in the GL840 (in GBD or CSV format)  Action (Engineering unit) function  Action during data capture: Onverts using two reference points (gain), offset)  Pulse count: Converts using two reference points (offset)  Pulse count: Converts using two reference points (offset)  Displaying past data (using dual display mode (Current + Past data))  Hot-swapping the SD memory card  Saving data in between cursors  7-inch TFT color LCD (WVGA: 800 x 480 dots)  English, French, German, Chinese, Korean, Russian, Spanish, Japanese  Information (*11)  Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment  Oto 45 °C, 5 to 85 % RH (non condensed)  (When operating with battery pack to 40 °C, charging battery 15 to 35 °C)  Power sourc  AC adapter  DC power  Battery pack  Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)  Power consumption (*12)  Max. 38 VA  External dimensions (W x D x H, Approx. 246 x 151 x 58.2 mm  (with the cover)			
Replay data  Replays captured data that was saved in the GL840 (in GBD or CSV format)  Scaling (Engineering unit) function  Measured value can be converted to specified engineering unit)  - handog voltage: Converts using four reference points (gain, offset)  - Temperature: Converts using two reference points (gain)  Action during data capture  - Displaying past data (using dual display mode (Current + Past data))  - Hot-swapping the SD memory card  - Saving data in between cursors  Display (LCD)  Size  - A-inch TFT color LCD (WVGA: 800 x 480 dots)  English, French, German, Chinese, Korean, Russian, Spanish, Japanese Information (*11)  Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment  Ot 045 °C, 5 to 85 % RH (non condensed)  (When operating with battery pack 0 to 40 °C, charging battery 15 to 35 °C)  Power sourc  AC adapter  DC power  Battery pack  Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)  Power consumption (*12)  Max. 38 VA  External dimensions (W x D x H, Approx. 246 x 161 x 58.2 mm  (with the cover)	Capturing m	ode	
Replay data  Replays captured data that was saved in the GL840 (in GBD or CSV format)  Scaling (Engineering unit) function  Measured value can be converted to specified engineering unit)  - handog voltage: Converts using four reference points (gain, offset)  - Temperature: Converts using two reference points (gain)  Action during data capture  - Displaying past data (using dual display mode (Current + Past data))  - Hot-swapping the SD memory card  - Saving data in between cursors  Display (LCD)  Size  - A-inch TFT color LCD (WVGA: 800 x 480 dots)  English, French, German, Chinese, Korean, Russian, Spanish, Japanese Information (*11)  Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment  Ot 045 °C, 5 to 85 % RH (non condensed)  (When operating with battery pack 0 to 40 °C, charging battery 15 to 35 °C)  Power sourc  AC adapter  DC power  Battery pack  Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)  Power consumption (*12)  Max. 38 VA  External dimensions (W x D x H, Approx. 246 x 161 x 58.2 mm  (with the cover)			Relay: Saves data to multiple files without losing data until dada capturing is stopped
Scaling (Engineering unit) function  Analog voltage: Converts using four reference points (gain, offset)  - Temperature: Converts using two reference points (gain, offset)  - Pulse count: Converts using two reference points (gain)  Action during data capture  - Displaying past data (using dual display mode (Current + Past data))  - Hot-swapping the 5D memory card  - Saving data in between cursors  - T-inch TFT color LCD (WVGA: 800 x 480 dots)  - English, French, German, Chinese, Korean, Russian, Spanish, Japanese Information (*11)  - Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  - Operating environment  - Ot 0 45 °C, 5 to 85 °S RH (non condensed)  - (When operating with battery pack 0 to 40 °C, charging battery 15 to 35 °C)  - Power sourc   AC adapter   100 to 240 V AC, 50/60 H2 (1 pc of adapter is attached as standard accessory)  - DC power   Battery pack   Mountable two battery packs (battery pack (option 8-569): 7.2V DC, 2900mAh)  - Power consumption (*12)   Max. 38 VA    - External dimensions (W x D x H, Approx. 246 x 161 x 58.2 mm   Approx. 246 x 170.4 x 58.2 mm   Kwith the cover)	Replay data		
Analog voltage: Converts using four reference points (gain, offset)  Temperature: Converts using two reference points (offset)  Pulse count: Converts using two reference points (offset)  Pulse count: Converts using two reference points (offset)  Displaying past data (using dual display mode (Current + Past data))  Hot-swapping the SD memory card  Saving data in between cursors  7-inch TFT color LCD (WVGA: 800 x 480 dots)  Language English, French, German, Chinese, Korean, Russian, Spanish, Japanese Information (*11) Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment 0 to 45 °C, 5 to 85 % RH (non condensed)  (When operating with battery pack to 40 °C, charging battery 15 to 35 °C)  Power sourc AC adapter 100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard accessory)  Battery pack Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)  Power consumption (*12) Max. 38 VA  External dimensions (W x D x H, Approx. 246 x 151 x 58.2 mm (with the cover)		eering unit) function	
- Temperature: Converts using two reference points (offset) - Pulse count: Converts using two reference points (gain) - Pulse count: Converts using two reference points (gain) - Pulse count: Converts using two reference points (gain) - Pulse count: Converts using two reference points (gain) - Pulse count: Converts using two reference points (gain) - Post play (LCD) Size			
Action during data capture  - Displaying past data (using dual display mode (Current + Past data))  - Hot-swapping the SD memory card  - Saving data in between cursors  Display (LCD) Size  T-inch TFT color LCD (WVGA: 800 x 480 dots)  English, French, German, Chinese, Korean, Russian, Spanish, Japanese Information (*11)  Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment  O to 45 °C, 5 to 85 % RH (non condensed)  (When operating with battery pack to 40 °C, charging battery 15 to 35 °C)  Power sourc   AC adapter   100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard accessory)  DC power   Battery pack   Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)  Power consumption (*12)   Max. 38 VA  External dimensions (W x D x H, A Excluding projections)   Mountable two battery packs (with the cover)			
- Hot-swapping the SD memory card     - Saving data in between cursors  Display (LCD) Size 7-inch TFT color LCD (WVGA: 800 x 480 dots)  Language English, French, German, Chinese, Korean, Russian, Spanish, Japanese Information (*11) Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment 0 to 45 °C, 5 to 85 % RH (non condensed) (When operating with battery pack 0 to 40 °C, charging battery 15 to 35 °C)  Power sourc AC adapter 100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard accessory)  DC power 8.5 to 24 V DC (DC drive cable (option B-514) is required)  Battery pack Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)  Power consumption (*12) Max. 38 VA  External dimensions (W x D x H, Approx. 246 x 161 x 58.2 mm (with the cover)			Pulse count: Converts using two reference points (gain)
- Saving data in between cursors  7-inch TFT color LCD (WVGA: 800 x 480 dots)  Language Information (*11) Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment Operating environment Ot 64 \$^{\text{C}}\$ to 85 \$^{\text{RH}}\$ (Inon condensed) (When operating with battery pack 0 to 40 \$^{\text{C}}\$, charging battery 15 to 35 \$^{\text{C}}\$)  Power sourc  AC adapter DC power Battery pack DC gower Battery pack Mountable two battery packs (battery pack (option 8-569): 7.2V DC, 2900mAh)  Power consumption (*12) Max. 38 VA  External dimensions (W x D x H, Approx. 246 x 161 x 58.2 mm (with the cover)  (with the cover)	Action during	g data capture	
Display (LCD) Size  7-inch TFT color LCD (WVGA: 800 x 480 dots)  English, French, German, Chinese, Korean, Russian, Spanish, Japanese Information (*11) Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment  0 to 45 °C, 5 to 85 % RH (non condensed) (When operating with battery pack to 40 °C, charging battery 15 to 35 °C)  Power sourc  AC adapter DC power Battery pack Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)  Power consumption (*12)  Max. 38 VA  External dimensions (W x D x H, Excluding projections)  Approx. 246 x 161 x 58.2 mm (with the cover)  Approx. 246 x 170.4 x 58.2 mm (with the cover)			
Language English, French, German, Chinese, Korean, Russian, Spanish, Japanese Information (*11) Waveform in Y-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart  Operating environment 0 to 45 °C, 5 to 85 % RH (non condensed) (When operating with battery pack to 40 °C, charging battery 15 to 35 °C)  Power sourc AC adapter 100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard accessory)  Battery pack Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)  Power consumption (*12) Max. 38 VA  External dimensions (W x D x H, Approx. 246 x 161 x 58.2 mm (with the cover)		I	
Information (*11) Waveform in V-T with digital values, Waveform only, Digital value, Digital values and statistics values, Bar chart .  Operating environment 0 to 45 °C, 5 to 85 % RH (non condensed) (When operating with battery pack 0 to 40 °C, charging battery 15 to 35 °C)  Power sourc AC adapter 100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard accessory)  DC power 8.5 to 24 V DC (DC drive cable (option B-514) is required)  Battery pack Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)  Power consumption (*12) Max. 38 VA  External dimensions (W x D × H, Approx. 246 x 161 x 58.2 mm (with the cover)	Display (LCD)		
Statistics values, Bar chart			
Operating environment  0 to 45 °C, 5 to 85 % RH (non condensed) (When operating with battery pack to to 40 °C, charging battery 15 to 35 °C)  Power sourc   AC adapter   100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard accessory)   DC power   8.5 to 24 V DC (DC drive cable (option B-514) is required)   Battery pack   Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)   Power consumption (*12)   Max. 38 VA   External dimensions (W x D x H, Approx. 246 x 161 x 58.2 mm   Approx. 246 x 170.4 x 58.2 mm   (with the cover)		information (*11)	
(When operating with battery pack 0 to 40 °C, charging battery 15 to 35 °C)   Power sourc   AC adapter   100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard accessory)     DC power   8.5 to 24 V DC (DC drive cable (poption B-514) is required)     Battery pack   Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)     Power consumption (*12)   Max. 38 VA     External dimensions (W x D x H, Approx. 246 x 161 x 58.2 mm   Approx. 246 x 170.4 x 58.2 mm     Excluding projections   (with the cover)   (with the cover)	Operating en	vironment	
Power sourc   AC adapter   100 to 240 V AC, 50/60 Hz (1 pc of adapter is attached as standard accessory)   DC power   8.5 to 24 V DC (DC drive cable (option B-514) is required)   Battery pack   Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)   Power consumption (*12)   Max. 38 VA   External dimensions (W X D X H, Approx. 246 x 161 x 58.2 mm   Approx. 246 x 170.4 x 58.2 mm   Excluding projections)   (with the cover)   (with the cover)	Sperating en	omment	
DC power   8.5 to 24 V DC (DC drive cable (option B-514) is required)	Power source	AC adapter	
Battery pack   Mountable two battery packs (battery pack (option B-569): 7.2V DC, 2900mAh)			
Power consumption (*12) Max. 38 VA  External dimensions (W x D x H, Excluding projections) (with the cover)  Approx. 246 x 161 x 58.2 mm (with the cover) (with the cover)			
External dimensions (W x D x H, Excluding projections)  Approx. 246 x 161 x 58.2 mm (with the cover)  Approx. 246 x 170.4 x 58.2 mm (with the cover)	Power consu		
	External dime	nsions (W x D x H,	'''
Weight (*13)   Approx. 1218 g (the cover is attached)  Approx. 1244 g (the cover is attached)		ojections)	
	Weight (*13)		Approx. 1218 g (the cover is attached)  Approx. 1244 g (the cover is attached)

mp Sense) TS ≤ 100 °C TS ≤ 300 °C TS ≤ 1600 °C TS ≤ 100 °C TS ≤ 1760 °C TS ≤ 1760 °C TS ≤ 1820 °C TS ≤ 100 °C TS ≤ 1820 °C TS ≤ -100 °C	Screw terminal (M3 screw) 20, 50, 100, 200, 500 mV, 1, 2, 5, 10, Type: K, J, E, T, R, S, B, N, W (WRe5-2 Range: 100, 500, 2000 °C (*15) Type: P1100 (IEC751), P11000 (IEC75 Range: 100, 500, 2000 °C (*15) 0 to 100 % RH - using the humidity Off, 2, 5, 10, 20, 40 (moving averag) ± 0.1% of ES. (Full Scale) ole) (*17) Measurement accuracy ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	S1), JPt100 (JIS)  sensor (option B-530) e in selected number)   ± (0.05% of F.S. + 10µV)  Measurement accuracy  ± 4.5 °C  ± 3.0 °C  ± 4.5 °C  ± 3.0 °C  ± 3.0 °C  ± 3.0 °C
ge nocouple Resistance ature Detector) dity  racy (*16)  Thermocoup rement range rmp Sense) TS ≤ 100 °C TS ≤ 100 °C TS ≤ 1500 °C TS ≤ 1760 °C TS ≤ 1750 °C	20, 50, 100, 200, 500 mV, 1, 2, 5, 10, Type: K, J, E, T, R, S, B, N, W (WRe5-2 Range: 100, 500, 2000 °C (*15) Type: Pt100 (IEC751), Pt1000 (IEC75 Range: 100, 500, 2000 °C (*15) 0 to 100 % RH - using the humidity Off, 2, 5, 10, 20, 40 (moving averag ± 0.1% of F.S. (Full Scale) oble) (*17) Measurement accuracy ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	6) 51), JPt100 (JIS) sensor (option B-530) e in selected number)  ± (0.05% of F.S. + 10μV)  Measurement accuracy  ± 4.5 °C  ± 3.0 °C  ± 2.2 °C  ± 4.5 °C  ± 3.0 °C
nocouple  Resistance ature Detector) dity  racy (*16)  Thermocoup rement range typ Sense) $15 \le 100 \degree C$ $15 \le 1600 \degree C$ $15 \le 1820 \degree C$	Type: K, J, E, T, R, S, B, N, W (WRe5-2 Range: 100, 500, 2000 °C (*15) Type: Pt100 (IEC751), Pt1000 (IEC751) Range: 100, 500, 2000 °C (*15) 0 to 100 % RH - using the humidity Off, 2, 5, 10, 20, 40 (moving averag  ± 0.1% of F.S. (Full Scale) sle) (*17) Measurement accuracy  ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	6) 51), JPt100 (JIS) sensor (option B-530) e in selected number)  ± (0.05% of F.S. + 10μV)  Measurement accuracy  ± 4.5 °C  ± 3.0 °C  ± 2.2 °C  ± 4.5 °C  ± 3.0 °C
Resistance at the Detector of the Markov (*16). The remocoup rement range amp Sense) $TS \le 100  ^{\circ}$	Range: 100, 500, 2000 °C (*15) Type: P1100 (IEC751), P11000 (IEC75 Range: 100, 500, 2000 °C (*15) 0 to 100 % RH - using the humidity Off, 2, 5, 10, 20, 40 (moving averag)  ± 0.1% of E.S. (Full Scale) ole) (*17) Measurement accuracy  ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	S1), JPt100 (JIS)  sensor (option B-530) e in selected number)   ± (0.05% of F.S. + 10µV)  Measurement accuracy  ± 4.5 °C  ± 3.0 °C  ± 4.5 °C  ± 3.0 °C  ± 3.0 °C  ± 3.0 °C
ature Detector) dity  racy (*16)  Thermocoup rement range remp Sense) T5 ≤ 100 °C T5 ≤ 300 °C T5 ≤ 300 °C T5 ≤ 1760 °C T5 ≤ 100 °C T5 ≤ 1760 °C T5 ≤ 500 °C T5 ≤ 1760 °C	Type: Pt100 (IEC751), Pt1000 (IEC75Range: 100, 500, 2000 °C (*15)  0 to 100 % RH - using the humidity  Off, 2, 5, 10, 20, 40 (moving averag  ± 0.1% of ES. (Full Scale)  ole) (*17)  Measurement accuracy  ± 5.2 °C  ± 3.0 °C  ± (0.05% of rdg. + 2.0 °C)  ± 5.2 °C  ± 3.0 °C  ± (0.05% of rdg. + 2.0 °C)  ± 3.5 °C	sensor (option B-530) e in selected number)  ± (0.05% of F.S. + 10μV)  Measurement accuracy  ± 4.5 °C  ± 3.0 °C  ± 2.2 °C  ± 4.5 °C  ± 4.5 °C
ature Detector) dity  racy (*16)  Thermocoup rement range remp Sense) T5 ≤ 100 °C T5 ≤ 300 °C T5 ≤ 300 °C T5 ≤ 1760 °C T5 ≤ 100 °C T5 ≤ 1760 °C T5 ≤ 500 °C T5 ≤ 1760 °C	Range: 100, 500, 2000 °C (*15) 0 to 100 % RH - using the humidity Off, 2, 5, 10, 20, 40 (moving averag  ± 0.1% of F.S. (Full Scale) ole) (*17) Measurement accuracy  ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	sensor (option B-530) e in selected number)  ± (0.05% of F.S. + 10μV)  Measurement accuracy  ± 4.5 °C  ± 3.0 °C  ± 2.2 °C  ± 4.5 °C  ± 3.0 °C
dity    Thermocoup	0 to 100 % RH - using the humidity Off, 2, 5, 10, 20, 40 (moving averag) ± 0.1% of F.S. (Full Scale) ale) (*17) Measurement accuracy ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	e in selected number)    ± (0.05% of F.S. + 10μV)    Measurement accuracy    ± 4.5 °C   ± 3.0 °C   ± 2.2 °C   ± 4.5 °C   ± 3.0 °C   ± 3.0 °C
racy (*16)  Thermocoup rement range rmp Sense)  TS ≤ 100 °C  TS ≤ 300 °C  TS ≤ 100 °C  TS ≤ 1760 °C  TS ≤ 300 °C  TS ≤ 1760 °C  TS ≤ 1820 °C  TS ≤ 1820 °C  TS ≤ 100 °C	Off, 2, 5, 10, 20, 40 (moving average) ± 0.1% of F.S. (Full Scale) ble) (*17) Measurement accuracy ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	e in selected number)    ± (0.05% of F.S. + 10μV)    Measurement accuracy    ± 4.5 °C   ± 3.0 °C   ± 2.2 °C   ± 4.5 °C   ± 3.0 °C   ± 3.0 °C
Thermocoup rement range imp Sense) TS ≤ 100 °C TS ≤ 300 °C TS ≤ 100 °C TS ≤ 1760 °C TS ≤ 600 °C TS ≤ 1820 °C TS ≤ 1820 °C TS ≤ 1820 °C	Off, 2, 5, 10, 20, 40 (moving average) ± 0.1% of F.S. (Full Scale) ble) (*17) Measurement accuracy ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	e in selected number)    ± (0.05% of F.S. + 10μV)    Measurement accuracy    ± 4.5 °C   ± 3.0 °C   ± 2.2 °C   ± 4.5 °C   ± 3.0 °C   ± 3.0 °C
Thermocoup rement range imp Sense) TS ≤ 100 °C TS ≤ 300 °C TS ≤ 100 °C TS ≤ 1760 °C TS ≤ 600 °C TS ≤ 1820 °C TS ≤ 1820 °C TS ≤ 1820 °C	ble) (*17)  Measurement accuracy  ± 5.2 °C  ± 3.0 °C  ± (0.05% of rdg. + 2.0 °C)  ± 5.2 °C  ± 3.0 °C  ± (0.05% of rdg. + 2.0 °C)  ± 3.5 °C	Measurement accuracy  ± 4.5 °C  ± 3.0 °C  ± 2.2 °C  ± 4.5 °C  ± 3.0 °C
rement range emp Sense) TS ≤ 100 °C TS ≤ 300 °C TS ≤ 1600 °C TS ≤ 100 °C TS ≤ 1760 °C TS ≤ 1760 °C TS ≤ 1820 °C TS ≤ 1820 °C TS ≤ 100 °C	ble) (*17)  Measurement accuracy  ± 5.2 °C  ± 3.0 °C  ± (0.05% of rdg. + 2.0 °C)  ± 5.2 °C  ± 3.0 °C  ± (0.05% of rdg. + 2.0 °C)  ± 3.5 °C	Measurement accuracy  ± 4.5 °C  ± 3.0 °C  ± 2.2 °C  ± 4.5 °C  ± 3.0 °C
rement range emp Sense) TS ≤ 100 °C TS ≤ 300 °C TS ≤ 1600 °C TS ≤ 100 °C TS ≤ 1760 °C TS ≤ 1760 °C TS ≤ 1820 °C TS ≤ 1820 °C TS ≤ 100 °C	Measurement accuracy  ± 5.2 °C  ± 3.0 °C  ± (0.05% of rdg. + 2.0 °C)  ± 5.2 °C  ± 3.0 °C  ± (0.05% of rdg. + 2.0 °C)  ± 3.5 °C	±4.5 °C ±3.0 °C ±2.2 °C ±4.5 °C ±3.0 °C
mp Sense) TS ≤ 100 °C TS ≤ 300 °C TS ≤ 1600 °C TS ≤ 100 °C TS ≤ 1760 °C TS ≤ 1760 °C TS ≤ 1820 °C TS ≤ 100 °C TS ≤ 1820 °C TS ≤ -100 °C	± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	±4.5 °C ±3.0 °C ±2.2 °C ±4.5 °C ±3.0 °C
mp Sense) TS ≤ 100 °C TS ≤ 300 °C TS ≤ 1600 °C TS ≤ 100 °C TS ≤ 1760 °C TS ≤ 1760 °C TS ≤ 1820 °C TS ≤ 100 °C TS ≤ 1820 °C TS ≤ -100 °C	± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	±4.5 °C ±3.0 °C ±2.2 °C ±4.5 °C ±3.0 °C
TS ≤ 300 °C TS ≤ 1600 °C TS ≤ 100 °C TS ≤ 300 °C TS ≤ 1760 °C TS ≤ 600 °C TS ≤ 1820 °C TS ≤ -100 °C	± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	± 3.0 °C ± 2.2 °C ± 4.5 °C ± 3.0 °C
TS ≤ 300 °C TS ≤ 1600 °C TS ≤ 100 °C TS ≤ 300 °C TS ≤ 1760 °C TS ≤ 600 °C TS ≤ 1820 °C TS ≤ -100 °C	± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	± 3.0 °C ± 2.2 °C ± 4.5 °C ± 3.0 °C
$TS \le 1600 \text{ °C}$ $TS \le 100 \text{ °C}$ $TS \le 300 \text{ °C}$ $TS \le 1760 \text{ °C}$ $TS \le 600 \text{ °C}$ $TS \le 1820 \text{ °C}$ $TS \le -100 \text{ °C}$	± (0.05% of rdg. + 2.0 °C) ± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	± 2.2 °C ± 4.5 °C ± 3.0 °C
TS ≤ 100 °C TS ≤ 300 °C TS ≤ 1760 °C TS ≤ 600 °C TS ≤ 1820 °C TS ≤ -100 °C	± 5.2 °C ± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	± 4.5 °C ± 3.0 °C
TS ≤ 300 °C TS ≤ 1760 °C TS ≤ 600 °C TS ≤ 1820 °C TS ≤ -100 °C	± 3.0 °C ± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	± 3.0 °C
TS ≤ 1760 °C TS ≤ 600 °C TS ≤ 1820 °C TS ≤ -100 °C	± (0.05% of rdg. + 2.0 °C) ± 3.5 °C	
TS ≤ 600 °C TS ≤ 1820 °C TS ≤ -100 °C	± 3.5 °C	113300
TS ≤ 1820 °C TS ≤ -100 °C		± 2.2 °C
TS ≤ -100 °C		± 3.5 ℃
TS < 1370 °C	± (0.05% of rdg. + 2.0 °C)	± 2.5 °C
TS < 1370 °C I	± (0.05% of rdg. + 2.0 °C)	± 1.5 °C
	± (0.05% of rdg. + 1.0 °C)	± 0.8 °C
	± (0.05% of rdg. + 2.0 °C)	± 1.0 °C
TS ≤ 800 °C	± (0.05% of rdg. + 1.0 °C)	± 0.8 °C
TS ≤ -100 °C	± (0.1% of rdg. + 1.5 °C)	± 1.5 ℃
TS ≤ 400 °C	± (0.1% of rdg. + 0.5 °C)	± 0.6 °C
		± 1.0 °C
		± 0.8 °C
		± 0.6 °C
		± 2.2 °C
		± 1.0 °C
		± 1.8 °C
13 2 2000 C		± 0.3 °C
RTD) (*18)	± 0.5 °C	]± 0.5 °C
rement range	Measurement accuracy	Measurement accuracy
	+ 1.0 °C	± 0.6 °C
		± 0.8 °C
		± 1.0 °C
TC < 100 oC	+0800	
TC + 500 oC	± 0.0 €	± 0.6 °C
TS : 100 °C	L 0.9.0C	± 0.8 ℃
	± 0.6 ℃	± 0.6 °C
15 ≤ 500 °C	S: D lt 1 461 ; / # 1:	± 0.8 °C
		nution: 1/40000 of the measuring full rang
		Leant
		600 Vp-p
		300 Vp-p
en channels		600 Vp-p
nel / GND	350 Vp-p (1 minute)	2300 Vrms AC (1 minute)
	TS ≤ 100 °C TS ≤ 1100 °C TS ≤ 1100 °C TS ≤ 1300 °C TS ≤ 2000 °C  RTD) (*18) rement range mp Sense) TS ≤ 500 °C TS ≤ 100 °C TS	TS ≤ 1300 °C ± (0.1% of rdg. + 1.0 °C)  TS ≤ 2000 °C ± (0.1% of rdg. + 1.5 °C)  ± 0.5 °C  EXTD) (*18)  Rement range my Sense)  TS ≤ 100 °C  TS ≤ 500 °C  Sigma-Delta type, 16 bits (effective resc 20 my to 2 V range: 60 Vp-p, -10 terminal 5 V to 100 V range: 110 Vp-p nels ((-) / (-))) 60 Vp-p

If ring capture or external sampling is On, the backup function is not available. It may take some time to save the data if many channels are used, the sampling speed is fast, the backup duration is long, or backup data is large.

\*9. Waveform viewer software for GL series. The software is free of charge and available to downloaad on Graphtec website.

\*10. Size of the capture data will be limited to 1/3 of available memory.

\*11. 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.

\*12. Rating under maximum power consumption using the AC adapter, with LCD display on, and battery pack(s) being charged.

\*13. Excludes AC adapter and battery pack.

\*14. The terminal "b" for using the RTD is connected each other across all channels.

\*15. 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.

\*16. Subject to the following conditions:

• Room temperature is 23 °C ± 5 °C.

• When 30 minutes or more have elapsed after power has turned on.

• Filter is set to 10.

• Sampling rate is set to 1 sec, using 20-channel in GL840-M and 10-channel in GL840-WV.

• GND terminal is connected to ground.

\*17. Wire size of thermocouple used is 0.32mm diameter in the T or K type and 0.65mm diameter in other types.

**GL840 Analog input specifications** 

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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 toavoid 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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