GRAPHTEC

Portable Datalogger Product Guide

Versatile Dataloggers for a Wide Variety of Applications



DATALOGGERS



midiLOGGER GL840 series



midiLOGGER **GL240**

Portable Dataloggers



20ch isolated, multi-channel datalogger



- Multifunction analog inputs
- 20 mV to 100 V

TC: R, S, B, K, E, T, J, N, W (WRe5-26) RTD: Pt100, Pt1000 (IEC750), JPt100 (JIS)

- 0 to 100% (the B-530 option is required)
- Pulse/Logic inputs

Pulse 4ch (Accumulating, Instant, or Rotation)*2 Logic 4ch 2

- Flexible input system for wide array of applications
- WLAN (option) capable for remote monitoring
- Maximum sampling rate up to 10 ms *3
- Extended memory capacity using SD memory card
- Combine GL100 and GL840 by using WLAN
- Capable of up to 100VDC on GL840-M and 300VDC on GL840-WV

midiLOGGER **GL240**





10 channel portable datalogger





10 channels

USB SDcard

0-10 **VDC**

4-20 mA

■ Multifunction analog inputs

20 mV to 100 V

TC: R, S, B, K, E, T, J, N, W (WRe5-26)

0 to 100% (the B-530 option is required)

■ Pulse/Logic inputs

Pulse 4ch (Accumulating, Instant, or Rotation) 2 Logic 4ch⁻²

- Multifunction input in 10 isolated channels
- Maximum sampling rate up to 10 ms *3
- Extended memory capacity using SD memory card
- WLAN (option) capable for remote monitoring
- Combine GL100 and GL240 by using WLAN

*1; WLAN is available in limited regions, *2; Select either Pulse or Logic input, and use optional input/output cable (B-513), *3; Sampling rate is dependent on the number of channels used, *4: 4-20mA input requires B-551 Shunt Resistor.

Expandable up to 200 channels in GL840



Input terminal unit is

DC



GL840 using the connection cable. Then, input terminal unit snaps into the extension terminal base

Extension terminal base connects to the The combined extension terminal base and input terminal units are daisy-chained

 Combine GL840 with GS sensors Measure temperature, acceleration, and more-with GS sensors



Combining GL100-WL and GL240*/GL840

GL100-WL can be connected to the GL240* or GL840 as a remote sensor



GL840: supports up to five units of GL100-WL

Compact LOGGER GL100 series

- Supports a wide array of measur ements with swappable sensors/modules
- Connect to a PC or smart device via wireless LAN
- Powered by USB or AA alkaline batteries







*1: WLAN is available in limited regions *4: 4-20mA input requires B-551 Shunt Resistor

GS sensors

One sensor slot is available for connecting one GS sensor from the GL100 to the GL840 or the GL240.







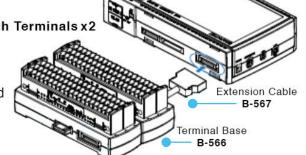


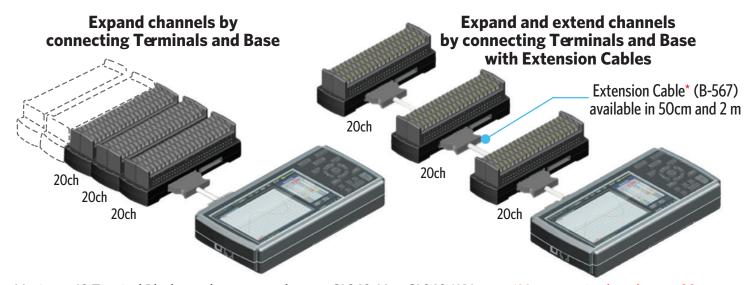
Datalogger Channel Extension Capabilities on the GL840

The standard configuration of GL840s come with a detachable terminal. The Multi-input model (GL840-M) has a removable terminal **B-564**, and the Withstand Voltage model (GL840-WV) has a removable terminal **B-565**.

Example of standard configuration expanded to 40 channels -> 20ch Terminals x2

To add or expand additional channels, the original terminal from the main body connects with the **B-566** Terminal Base allowing you to add additional terminals for up to 200 channels or 10 terminal blocks.





Maximum 10 Terminal Blocks can be connected to one GL840-M or GL840-WV

*Max extension length up to 20 meters

Options and Accessories B-565 Input terminal (M type) Input terminal (WV type) Input/Output cable for GL seri Humidity sensor B-514 N/A DC drive cable Yes Yes B-530 Humidity sensor Yes B-564 Input terminal (M type) N/A Yes N/AN /A /A N/A N/AN Input terminal (WV type) Yes Base of input terminal Yes B-567-05,-20 Connection cable N/A Yes N/AN /A Wireless LAN unit Connection cable Battery pack B-568 /A N/AN Wireless LAN unit Yes Yes Battery pack Yes N/A ACADP-20 AC power adapter Yes N/AN N/AN ACADP-90 AC power adapter /A Yes N/A RIC-10 Probe set for Logic input N/AN /A N/A Yes ACADP-90 RIC-142 RIC-143, -144, -145, BIC-142 Input cable, BNC - BNC N/AN /A /A Yes Input cable, Clip RIC-143 Input cable, Banana - BNO N/AN Yes Yes RIC-144 /A Clip, Alligator (small size) for RIC-143,147 N/AN Yes Yes RIC-145 Yes BIC-145 Clip, Alligator (middle size) for RIC-143,147 N/AN /A Yes RIC-146 Clip, Grabber for RIC-143,147 N/AN /A Yes Yes Input cable, Banana - BNC (High voltage) Yes Shunt Resistor B-551 High precision 250ohm shunt resistor for B-551 4-20mA current loop

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

GL840 series

GI 240

Ethernet



(Software)

■ Supports GL840, GL240, GL100

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

Controls settings for GL840, GL240, GL100

Various measurement screen

Displays data in Y-T waveform, digital monitoring, statistical calculation result.

The direct-Excel function enables captured data to be written directly to an Excel file.





File operation

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

■ Useful functions

Scheduling function

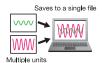
Create a schedule for your monitoring to start and stop at selected time, and set an automatic measurement schedule.



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



Schedule table is able to create easily using mouse.



Data format conversion

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

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



WLAN access point / Router



GI 240

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 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.

- Due to the possibility of equipment or PC failure, data files on the instrument is not guaranteed to be stored on the memory. Please backup your data 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.



Use equipment correctly and safely!

- · Use only in accordance with product's user manual
- To avoid malfunction or an electric shock by current leakage or voltage, please ensure a ground connection and use according to the specification.



