Portable Datalogger Product Guide
Versatile Dataloggers for a Wide Variety of Applications

COMPACT LOGGER - GL100 SERIES

DAT ALOGGERS

midiLOGGER GL840 series

midiLOGGER GL240
Portable Dataloggers

**Portable Dataloggers**

**GS-4VT**
- Voltage: max. 50 V
- Temp.: TC, R, S, B, K, E, T, J, N, W (WRe5-26)
- 0 to 100% (the B-530 option is required)
- Extended memory capacity using SD memory card
- 4ch (Accumulating, Instant, or Rotation)
- Logic or Pulse

**GS sensors**

- **Temp./Humidity**
  - GS-TH
  - Temp.: -20 to 85°C
  - Humidity: 0 to 100% RH
  - Dew-point temp., Accumulated temp.

- **Acceleration/Temp.**
  - GS-3AT
  - Try-axial: max. 10 G
  - Temp.: -10 to 50°C

- **Carbon dioxide (CO2)**
  - GS-CO2
  - CO2 concentration: 0 to 9999 ppm

- **Illuminance/UV**
  - GS-LXUV
  - Illuminance: 0 to 200 klx
  - UV intensity: 0 to 30 mW/cm²

**GL sensors**

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

**Compact LOGGER GL100 series**

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

**GS sensors**

- **Humidity, Voltage, Pulse/Logic** channels
- **Flexible input system for wide array of applications**
- **WLAN (option) capable for remote monitoring**
- **Maximum sampling rate up to 10 ms**
- **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

**20ch isolated, multi-channel datalogger**

- **Multifunction analog inputs**
  - Voltage: 20 mV to 100 V
  - Temp.: TC, R, S, B, K, E, T, J, N, W (WRe5-26)
  - Humidity: 0 to 100%
- **Pulse/Logic inputs**
  - Pulse: 4ch (Accumulating, Instant, or Rotation)
  - Logic: 4ch

**Expandable up to 200 channels in GL840**

- Input terminal unit to be removed from the main body of the GL840.
- The combined extension terminal base and input terminal unit serves as a multi-channel board.

**Combine GL840 with GS sensors**

- Measure temperature, acceleration, and more—with GS sensors

**GL100-WL and GL240**

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

**GL100-4M**

- GL840: supports up to five units of GL100-4M

**GS-DPA-AC**

- 50, 100, 200 A
- Single-phase, three-phase power system

**GS-4TSR**

- Temp.: -40 to 120°C*
- It varies by the sensor.
- Logic or Pulse

**Input terminal / Adapter**

- Dual port adapter
- Thermistor terminal (GL100-TH, GL240-TH, GL840-TH)
- AC current sensor (GL840-AC)
- Voltage/Temp. terminal (GL840-AT)
- Current sensor adapter (GL840-C2A, GL100-C1A)

**Extension cable**

- Extension cable for input modules (GL840-EXC)

**GL100 series**

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

**GL840-WV**

- High end withstand voltage test

**GL840-M**

- Multi-input model

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

- 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 function 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.
- 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

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.

• 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!
To avoid malfunction or an electric shock by current leakage or voltage, please ensure a ground connection and use according to the specification.