

Extensive lineup adapted to a wide variety of applications

Instrument Product Line-up

midi LOGGER
HV GL2000



midi LOGGER
GL980



midi LOGGER
GL240



midi LOGGER
GLT400



DATA PLATFORM
GL7000



midi LOGGER
GL840 Series



Petit LOGGER
GL100 Series



Data Logger

Isolated input, multi-channel logger midi LOGGER GL840 series



Multi-input model
GL840-M

High withstand voltage model
GL840-WV

- Max. 10ms sampling
- Σ type A/D converter
- Temp. Humidity, Voltage, Pulse/Logic
- Up to 200 channels
- LAN USB SDCard

- Multifunction analog inputs
 - Voltage 20 mV to 100 V, 1-5V
 - Temp. TC: R, S, B, K, E, T, J, N, C (WR5-26)
 - RTD: Pt100, Pt1000 (IEC750), JPt100 (JIS)
 - Humidity 0 to 100% (the B-530 option is required)
- 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
- Combining GL100 and GL840 by using WLAN
- Pulse/Logic inputs
 - Pulse 4ch (Accumulating, Instant, or Rotation) *2
 - Logic 4ch *2

10 channel handy logger midi LOGGER GL240

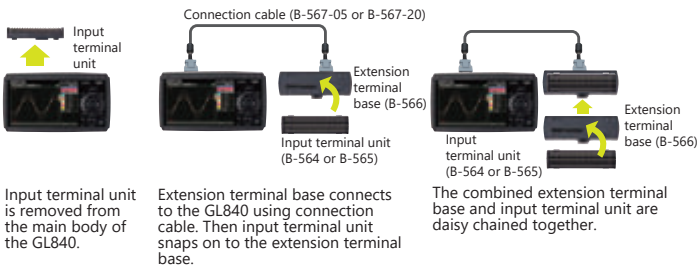


- Max. 10ms sampling
- Σ type A/D converter
- Temp. Humidity, Voltage, Pulse/Logic
- 10 channels
- USB SDCard

- Multifunction analog inputs
 - Voltage 20 mV to 100 V, 1-5V
 - Temp. TC: R, S, B, K, E, T, J, N, C (WR5-26)
 - Humidity 0 to 100% (the B-530 option is required)
- 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
- Combining GL100 and GL240 by using WLAN
- Pulse/Logic inputs
 - Pulse 4ch (Accumulating, Instant, or Rotation) *2
 - Logic 4ch *2

*1: WLAN is available in limited regions. *2: Select either Pulse or Logic input, and use the optional input/output cable (B-513). *3: Sampling rate is limited by the number of channels to be used.

Expandable up to 200 channels in GL840



- Support the GS sensors in GL840
- Temperature, acceleration, and others are able to measure using the GL sensors.



Combining GL100-WL and GL240/GL840

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



* GL240: supports single GL100-WL.
GL840: supports up to 5 units of GL100-WL.
* The model need to be applied with B-568 for use.

PetitLOGGER GL100 series

- Supports a wide array measurement by exchanging the sensors
- Wireless connection to the PC/Smart devices via WLAN
- Power source : Battery (AA x 2) or USB bus power



GL100-WL
(with wireless LAN)

GL100-N
(without wireless LAN)

- Wireless LAN GL100-WL
- USB Interface
- microSD memory card
- Sensor, input terminal, adapter 7types
- PC
- Smart device GL100-WL

*4: WLAN is available in limited regions.

GS sensors

The sensor is connected to the GS sensor port of the GL840 and GL100.

Sensors			
Temp./Humidity GS-TH Temp.: -20 to 85°C Humidity: 0 to 100% RH Dew-point temp., Accumulated temp.	Acceleration/Temp. GS-3AT 3-axis: max. 10 G Temp.: -10 to 50°C	Carbon dioxide (CO₂) GS-CO2 CO ₂ concentration: 0 to 9999 ppm	Illuminance/UV GS-LXUV Illuminance: 0 to 200 klx UV intensity: 0 to 30 mW/cm ² Accumulated Illuminance and UV
Dual port adapter		Input terminal / Adapter	
Dual port adapter GS-DPA Connects two sensors of GS-TH, GS-CO2, GS-LXUV.	Thermistor terminal GS-4TSR 4ch Temp.: -40 to 120°C It varies by the sensor.	Current sensor adapter GS-DPA-AC 50, 100, 200 A Max. Single-phase, three-phase power system	Voltage/Temp. terminal GS-4VT 4ch Voltage: max. 50 V Temp.: TC, K or T 4ch Logic or Pulse
Extension cable Extension cable for input module GS-EXC Cable length: 1.5 m	Thermistor sensor Normal type GS-103AT-4P Ultrathin type GS-103JT-4P	AC current sensor 50 A, 100 A, 200 A	

Data Logger

Multi-use data logger
midi LOGGER

GLT400 **NEW!**

Max. 10ms sampling	Σ type A/D converter	Temp. Humidity, Voltage, Pulse/Logic	Up to 200 channels	LAN USB SDCard
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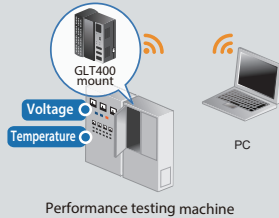


- Multifunction analog inputs
 - Voltage** 20 mV to 100 V, 1-5V
 - Temp.** TC: R, S, B, K, E, T, J, N, C (WR5-26)
RTD: Pt100, Pt1000 (IEC750), JPt100 (JIS)
 - Humidity** 0 to 100% (the B-530 option is required)
- Pulse/Logic inputs
 - Pulse** 4ch (Accumulating, Instant, or Rotation) *2
 - Logic** 4ch *2

- Transferring data to PLC via Modbus/TCP protocol
- DC Power only for -20 to +60 operation
- Supports WEB server, FTP server and FTP client network functions for remote monitoring and controlling.
- High Isolation inputs to ensure signals are not corrupted by noise from other channels
- Connect as a remote terminal unit of GL840
- WLAN (option) capable for remote monitoring

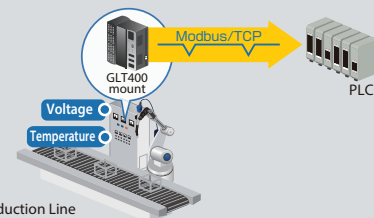
Mount or embed in a system and remote monitoring by PC.

Real time remote monitoring and control via Ethernet, Wireless LAN* and USB (Software is standard accessory)



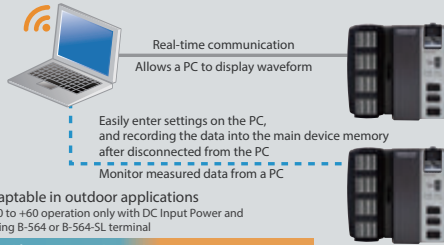
Modbus/TCP for PLC I/O channels. It can be used as additional I/Os.

Bidirectional communication between PLC and GLT400 via Modbus /TCP, Start or stop command can be sent from PLC.



Enable to use as PC hosted data logger

Connection to PC via USB, LAN and Wireless LAN. Standalone or PC hosted data logger for R&D, Quality and Production

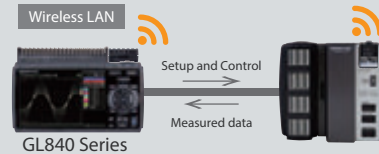


Adaptable in outdoor applications
* -20 to +60 operation only with DC Input Power and using B-564 or B-564-SL terminal

Wide range operating environment: -20 to +60°C

Connect as a remote terminal unit of GL840

Communications via Ethernet or Wireless LAN.* (Expand up to 200 ch (incl. GLT400) per GL840 or Up to 5 units of GLT400 can be connected to GL840 host) Setup and control from GL840 and captured data can be stored on GL840 which is measured from GLT400.



* Requires optional B-568
When using multiple devices, use Router by WPS

*1: WLAN is available in limited regions.

*2: Select either Pulse or Logic input, and use the optional input/output cable (B-513).

Data Logger / Data Acquisition

High-speed, High-Voltage, Isolated 4 channel Data Logger midi LOGGER **HV** GL2000



Simultaneous sampling Isolated	CAT III	Max. 1MS/s (1μs)
Voltage Temp., Humidity, Pulse/Logic	Built-in RAM 4MS/ch	Built-in Flash memory 4GB
USB SDCard		

- Multifunction analog inputs
 - Voltage** 20 mV to 1000 V DC, 1-5 V DC
10 mV to 1000 V rms
*Maxim Measurable Voltage 600V
 - Temp.** TC: K, J, E, T, R, S, B, N, C (WR5-26)
 - Humidity** 0 to 100% (the B-530 option is required)
- Pulse/Logic inputs
 - Pulse** 4 channels *5
Accumulating, instant or RPM
 - Logic** 4 channels *5
- 4ch High Speed Simultaneous Sampling
- CAT III 600V Compatible
- Measure AC 600 V Measurement with True-rms
- Built-in High-capacity RAM (4 M samples/ch) and Flash memory (4 GB)
- Large Easy-to-read 7-inch LCD

*5: Select either Pulse input or Logic input, and use the optional input/output cable for GL (B-513 option).

Isolated, simultaneous 8 channel Data Logger midi LOGGER GL980



Simultaneous sampling Isolated	Max. 1MS/s (1μs)	Voltage Temp., Humidity, Pulse/Logic
Built-in RAM 4MS/ch	Built-in Flash memory 4GB	USB SDCard

- Multifunction analog inputs
 - Voltage** 20 mV to 500 V DC, 1-5 V DC,
10 mV to 250 V rms
 - Temp.** TC: K, J, E, T, R, S, B, N, C (WR5-26)
 - Humidity** 0 to 100% (the B-530 option is required)
- Pulse/Logic inputs
 - Pulse** 4 channels *5
Accumulating, instant or RPM
 - Logic** 4 channels *5
- 8ch High speed simultaneous sampling
- Includes 500 V measurement with 16-bit A/D converter
- Equipped with true-rms measurement
- Large built-in RAM (4 M samples/ch) and built-in Flash memory (4 GB)
- Large easy-to-read 7-inch LCD

Modular Type Data Acquisition Unit DATA PLATFORM GL7000

Hi-speed
1MS/s

Multi-channels
max.112ch

High voltage
1000 V

Huge memory capacity
128GB SSD



- 8 types of input/output modules are available for various measurement types.
- Max. 10 input/output modules can be attached to main unit
- Various storage media are available (Internal RAM, Internal Flash, SD slot and 128GB SSD module)
- Supports the GL-Connection software. Allows to use with other units of GL series

* Example, the option of 6 modules and the display are installed.

Voltage Module Voltage 10ch/unit Max. 1ks/s (1ms) Simultaneous sampling Isolated GL7-V	Voltage/Temperature Module Voltage, Temp. 10ch/unit Max. 100S/s (10ms) A/D converter type Isolated GL7-M	High speed Voltage Module High speed 4ch/unit Max. 1MS/s (1μs) Simultaneous sampling Isolated GL7-HSV	High Voltage Module Voltage 2ch/unit Max. input voltage 1000V Max. 1MS/s (1μs) Isolated GL7-HV	DC Strain Gauge Module Strain, Voltage 4ch/unit Strain gauge, Sensor Max. 100kS/s (10μs) Isolated GL7-DCB
Charge (Acceleration) Module Charge, Voltage 4ch/unit Charge, IEPE Sensor (TEDS) Max. 100kS/s (10μs) Isolated GL7-CHA	Voltage Output Module Output voltage 8ch/unit Max. 100kS/s (10μs) Captured data, Arbitrary waveform Isolated GL7-DCO	Logic/Pulse Module Logic/Pulse 16ch/unit Max. 1MS/s (1μs) Simultaneous sampling GL7-L/P	SSD Module 128 GB storage GL7-SSD	Display Module GL7-DISP

* Optional input or output cable is required.

*Probe set for Logic input: RIC-10A (Option)

Options and Accessories

Model	Item	GL240	GL840 series	GL2000/980	GL7000 series
B-513	Input/Output cable for GL series	✓	✓	✓	✓
B-514	DC drive cable	✓	✓	✓	✓
B-530	Humidity sensor	✓	✓	✓	✓
B-560A	Input connector, screw terminal	✓	✓	✓	✓
B-564	Input terminal (M type)		✓		
B-565	Input terminal (WV type)		✓		
B-566	Base of input terminal		✓		
B-567-05,-20	Connection cable		✓		
B-568	Wireless LAN unit	✓	✓		
B-569	Battery pack	✓	✓		
B-581	Storage case	✓	✓	✓	
B-585	Carrying tool (GL7000 + 3 modules)		✓		✓
B-586	Storage case (GL7000 + 3 modules)		✓		✓
ACADP-20	AC power adapter	✓	✓		
RIC-10A	Probe set for Logic input				✓
RIC-141A	Input cable, Safe probe - BNC			✓	✓
RIC-142	Input cable, BNC - BNC			✓	✓
RIC-143	Input cable, Banana - BNC			✓	✓
RIC-144A	Clip, Alligator (small size) for RIC-143,147			✓	✓
RIC-145	Clip, Alligator (middle size) for RIC-143,147			✓	✓
RIC-146	Clip, Grabber for RIC-143,147			✓	✓
RIC-147	Input cable, Banana - BNC (High voltage)			✓	✓



- Due to the possibility of equipment or PC failure, the data files on the instrument will not be guaranteed to be held on the memory. Please make a backup of data whenever possible to avoid data loss.
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⚠ 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.

GRAPHTEC
Graphtec Corporation

503-10 Shinano-cho, Totsuka-ku, Yokohama 244-8503, Japan
Tel : +81-45-825-6250 Fax : +81-45-825-6396

Website <http://www.graphteccorp.com>



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