GRAPHTEC

Extensive lineup adapted to a wide variety of appications

Instrument Product Line-up

Compact Data Logger

PetitLOGGER **GL100**series

Data Logger

midi LOGGER **GL900**series

midi LOGGER **GL840**series

midi LOGGER **GL240**

Data Acquisition

DATA PLATFORM **GL7000**

www.graphteccorp.com

Data Logger

NEW

Isolated input, multi-channel logger

midi LOGGER GL840series

High withstand voltage model
GL840-WV

Multi-input model
GL840-M

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

- 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

NEW

10 channel handy type logger

midi LOGGER GL240

Max. 10ms sampling | Σ⊿ type A/D converter | Temp. Humidity, Voltage, Pulse/Logic | 10 channels | USB SDcard

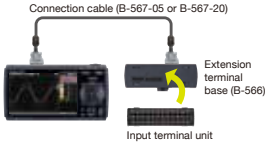
- Multifunction analog inputs
  - Voltage: 20 mV to 100 V
  - Temp.: TC: R, S, B, K, E, T, J, N, W (WRe5-26)
  - Humidity: 0 to 100% (the B-530 option is required)
- Pulse/Logic inputs
  - Pulse: 4ch (Accumulating, Instant, or Rotation) *2
  - Logic: 4ch *2

- 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
- Combining GL100 and GL240 by using WLAN

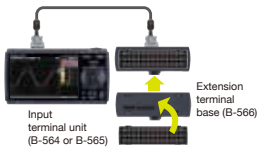
*1: WLAN is available in limited regions. *2: Select ether Pulse or Logic input, and use the optional input/output cable (B-513). *3: Sampling rate is limited by the number of channels to be used.

Expandable up to 200 channels in GL840

Input terminal unit is removed from the main body of the GL840.



Extension terminal base connects to the GL840 using connection cable. Then input terminal unit snaps on to the extension terminal base.



The combined extension terminal base and input terminal unit are daisy chained together.

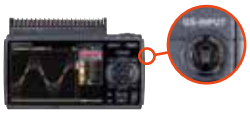
Combining GL100-WL and GL240/GL840

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.

Support the GS sensors in GL840

Temperature, acceleration, and others are able to measure using the GL sensors.



PetitLOGGER GL100series

- Supports a wide array measurement by exchanging the sensor
- Connecting to the PC or smart device via a WLAN
- Driving by a battery 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., Accumlated temp.

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

Carbon dioxide (CO_2)
GS-CO2
CO_2 concentration:
0 to 9999 ppm

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

Dual port adapter

Dual port adapter
GS-DPA
Connects two sensors of GS-TH, GS-CO2, GS-LXUV.

Input terminal / Adapter

Thermistor terminal
GS-4TSR
4ch Temp.: -40 to 120°C*
* It varies by the sensor.
4ch Logic or Pluse

Current sonsor adapter
GS-DPA-AC
Max. 2ch 50, 100, 200 A
Single-phase, three-phase power system

Voltage/Temp. terminal
GS-4VT
4ch Voltage: max. 50 V
Temp.: TC K or T
4ch Logic or Pluse

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

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

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

GL7-V: Voltage 10ch/unit; Max. 1kS/s (1ms); Simultaneous sampling, Isolated

Voltage/Temperature Module

GL7-M: Voltage, Temp. 10ch/unit; Max. 100S/s (10ms); ΣΔ type A/D converter, Isolated

High speed Voltage Module

GL7-HSV: High speed 4ch/unit; Max. 1MS/s (1µs); Simultaneous sampling, Isolated

High Voltage Module

GL7-HV: Voltage 2ch/unit; Max. input voltage 1000V; Max. 1MS/s (1µs), Isolated

DC Strain Module

GL7-DCB: Strain, Voltage 4ch/unit; Strain gauge, Sensor; Max. 100kS/s (10µs), Isolated

Charge Module

GL7-CHA: Charge, Voltage 4ch/unit; Charge, IEPE Sensor (TEDS); Max. 100kS/s (10µs), Isolated

* Optional input or output cable is required.

Voltage Output Module

GL7-DCO: Output voltage 8ch/unit; Max. 100kS/s (10µs); Captured data, Arbitrary waveform

Logic/Pulse Module

GL7-L/P: Logic/Pulse 16ch/unit; Max. 1MS/s (1µs); Simultaneous sampling

SSD Module

GL7-SSD: 128 GB storage

Display Module

GL7-DISP

High-speed isolated 4 or 8 channel multifunction logger

midi LOGGER GL900 series

Supports the GL-Connection software
Allows to use with other units of GL series

Max. 100kS/s (10 µs) | Simultaneous sampling

Voltage, Temp., Humidity, Pulse/Logic | GL900-4 4ch | GL900-8 8ch

LAN | USB | USB memory

Voltage	20 mV to 500 V
Temp.	TC: K, J, E, T, R, S, B, N, W(WRe5-26)
Humidity	0 to 100 % (the B-530 option is required)
Pulse	4ch (Accumulating, Instant, or Rotation)
Logic	4ch

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

- Multifunction input on 4 or 8 isolated channels
- Maximum sampling rate of up to 10 µs
- Equipped with a 5.7-inch TFT color LCD
- Displays the data in the X-Y graph in real time
- Store the data directly into the USB memory device

Options and Accessories

Model	Item	GL240	GL840 series	GL900 series	GL7000 series
B-513	Input/Output cable for GL series	Yes	Yes	Yes	Yes
B-514	DC drive cable	Yes	Yes	Yes	N/A
B-530	Humidity sensor	Yes	Yes	Yes	Yes
B-564	Input terminal (M type)	N/A	Yes	N/A	N/A
B-565	Input terminal (WV type)	N/A	Yes	N/A	N/A
B-566	Base of input terminal	N/A	Yes	N/A	N/A
B-567-05,-20	Connection cable	N/A	Yes	N/A	N/A
B-568	Wireless LAN unit	Yes	Yes	N/A	N/A
B-569	Battery pack	Yes	Yes	Yes	N/A
ACADP-20	AC power adapter	Yes	Yes	N/A	N/A
ACADP-90	AC power adapter	N/A	N/A	Yes	N/A
RIC-10	Probe set for Logic input	N/A	N/A	N/A	Yes
RIC-142	Input cable, BNC - BNC	N/A	N/A	Yes	Yes
RIC-143	Input cable, Banana - BNC	N/A	N/A	Yes	Yes
RIC-144	Clip, Alligator (small size) for RIC-143,147	N/A	N/A	Yes	Yes
RIC-145	Clip, Alligator (middle size) for RIC-143,147	N/A	N/A	Yes	Yes
RIC-146	Clip, Grabber for RIC-143,147	N/A	N/A	Yes	Yes
RIC-147	Input cable, Banana - BNC (High voltage)	N/A	N/A	Yes	Yes

B-513 Input / Output cable

B-514 DC drive cable

B-530 Humidity sensor

B-564 Input terminal (M type)

B-565 Input terminal (WV type)

B-566 Base of input terminal

B-567-05 or -20 Connection cable

B-568 Wireless LAN unit

B-569 Battery pack

ACADP-20 AC power adapter

ACADP-90 AC power adapter

RIC-10 Probe set for Logic input

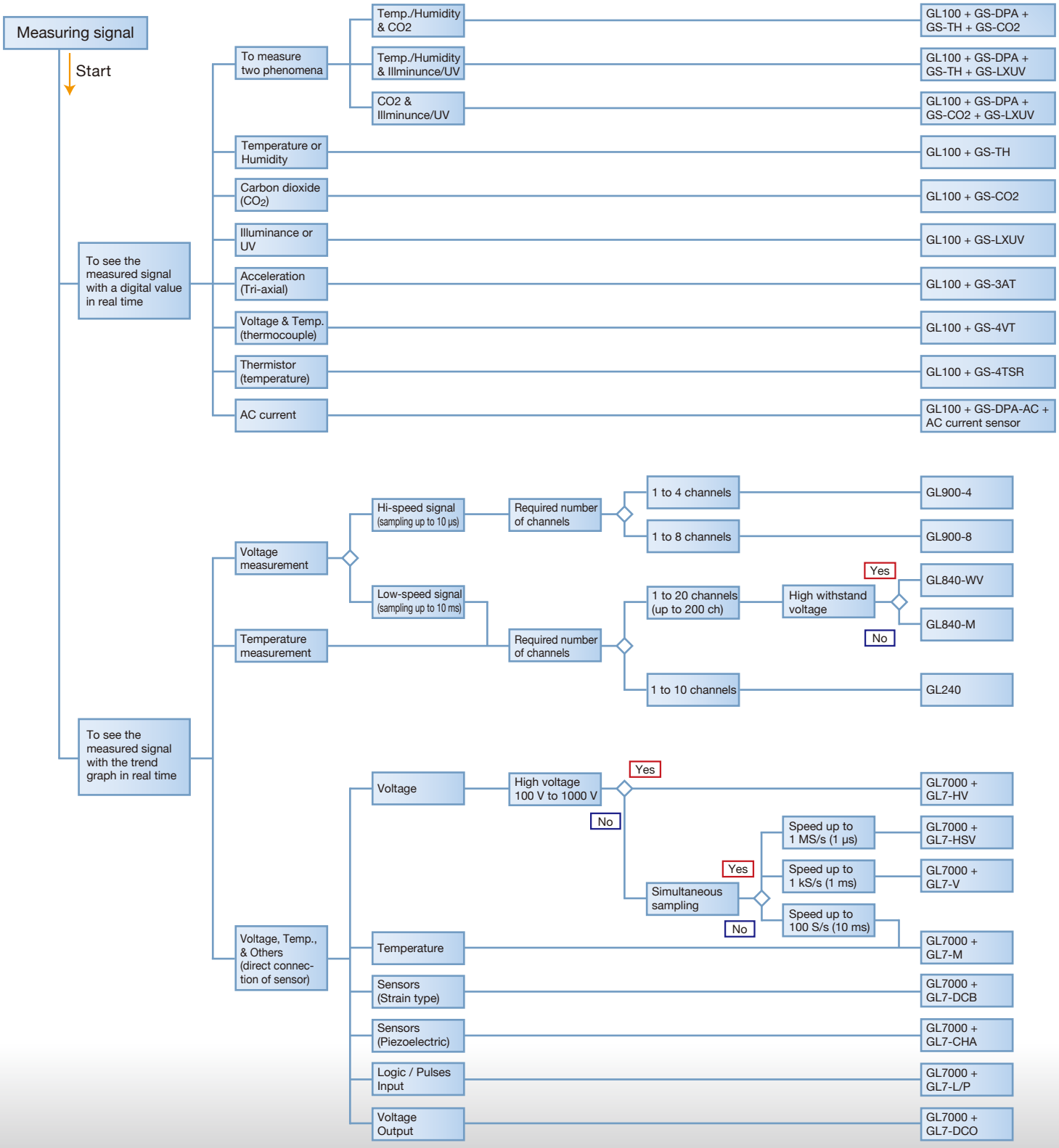
RIC-142 Input cable

RIC-143, -144, -145, -146, -147 Input cable, Clip

Product selection guide ▶▶▶

There are a wide variety of measurement as faster signal in the vehicle and equipment test, or slower signal like the temperature in the environment test. The device to capture the signal needs to be selected to fit the required application.

*Please refer to the inside page of this document for details on each product.



- 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.
- Brand names and product names listed in this brochure are the trademarks or registered trademarks of their respective owners.
- Items mentioned are subject to change without notice. For more information about product, please check the web site or contact your local representative.

⚠ For using equipment in correctly and safely

- Before using it, please read the user manual and then please use it 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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