

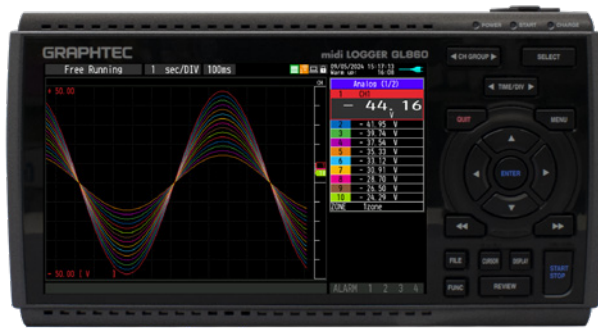
GRAPHTEC

Isolated Multi-CH
data LOGGER

GL860



Flexible Options with 4 Terminals



NEW!
30CH
terminal



WITHSTAND HIGH-VOLTAGE
HIGH-PRECISION TERMINAL
B-565



30CH SCREW LESS
INPUT TERMINAL
B-563SL-30



20CH SCREW
INPUT TERMINAL
B-563



20CH SCREW LESS
INPUT TERMINAL
B-563SL

*Terminals are not included. Please purchase separately.

NEW SERVICE G-REMOTE

*Additional charge for use

Remote Control Service - Remotely control GL860 connected to the Internet

Data Storage Service - Store GL series recorded data on a server

6 NEW FEATURES

Faster sampling interval - Twice as fast as the previous models!

Recording options

Maximum Sampling Interval of max. **5ms** (*settings required)

By limiting the number of channels, data can be recorded in max. 5ms.

| Sampling interval | 5ms | 10ms | 20ms | 50ms | 100ms | 250ms | 0.5s | 1s |
|------------------------|-----|------|------|------|-------|-------|------|-----|
| Number of channels | 1 | 2 | 4 | 10 | 20 | 50 | 100 | 200 |
| Measuring Volt./Humid. | • | • | • | • | • | • | • | • |
| Temp. | | | | | • | • | • | • |

Memory Loop Function - Additional Relay Capture Function for Longer Recordings

CH Copy Function - Easy setup by copying the amp settings for the target channel

Alarm History Function - Easily search the history of abnormal event dates and times

Enhanced Inter-CH Operation - Various calculating options than previous models

Support Modbus - Communication function with sequencer by Modbus TCP

USER FRIENDLY FEATURES

Long time recording is available - Built-in 8GB Memory or SD Card

(data size: 2GB)

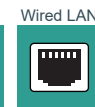
*Sampling interval is limited by the number of channels in use.

| Sampling interval | 5ms | 10ms | 50ms | 100ms | 200ms | 500ms | 1s | 10s |
|-------------------|--------|--------|--------|--------|---------|---------|-----------|-----------|
| GBD format | 15days | 24days | 47days | 54days | 108days | 270days | 366+ days | 366+ days |
| CSV format | 1day | 3days | 8days | 11days | 22days | 55days | 111days | 366+ days |

Data Communication

PC Software

*Please visit our website for download



GL-Connection - an integrated application software for the GL series.

GL28-APS - The application software to connect GL series and PC.

*B-568 (optional item) is required



SDK

GL860 Main Unit Specifications

| Item | Description |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Number of analog inputs | Maximum 200ch available for 1 terminal(20ch/30ch) or extension unit |
| External input (*1) | Number of channels Trigger of Sampling (1 channel), or External Sample Inputs 1ch Logic / Pulse (4 channel) |
| | Pulse input Revolutions mode, Counts mode, Inst. mode Maximum input frequency: 50kHz Maximum number of count: 50kC/sampling |
| External output (*1) | Alarm output: 4ch |
| Sampling interval | 5ms-1h (5ms-50ms: voltage only, limited number of CH), External signal |
| Scaling function | 4 points can be set for each channel The temperature range scaling function is available. |
| A/D converter | $\Delta\Sigma$ method, 16Bit (Effective resolution: About 1/40000 of the +/- range) |
| PC I / F | Ethernet (10BASE-T / 100BASE-TX) USB2.0 (Hi-SPEED) ,Wireless LAN (Option) |
| Storage media (*2) | Storage Built-in memory: approx. 8GB, SD card slot: 1 |
| | Data format GBD, CSV |
| Recording mode | Default, Ring, Relay |
| Other functions | Calculation function, Trigger, Alarm function, Data backup function (*3) |
| Display | 7-inch TFT color LCD (WVGA: 800 x 480 dots) |
| Operating environment (including terminals) | 0-45°C, 5-85%RH (0 to 40°C when operated in batteries/15 to 35°C when a battery is charging) |
| Power supply | AC adapter AC100-240V / 50-60Hz |
| | DC input DC8.5-24V(Option: B-514 is required) |
| | Battery pack DC7.2V(2875mAh)2 packs can be mounted (Optional item) |
| Power consumption | 38VA or lower (when using the AC adapter, LCD ON, recharging battery, AC100V) |
| Dimensions [WxDxH] (approx.) | (*Refer to terminal specifications) |
| Weight (approx.) | (*Refer to terminal specifications) |
| Vibration resistance | Equivalent to Automobile parts Type 1 Class A |

Options

| Item | Model | Description |
|------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------|
| GL wireless LAN unit | B-568 | Standard: IEEE802.11b / g / n communication distance: approx. 40m(Depends on the situation) |
| Withstand high-voltage high-precision terminal | B-565 | Analog input terminal |
| 30CH SCREW LESS INPUT TERMINAL | B-563SL-30 | Analog input terminal |
| 20CH SCREW INPUT TERMINAL | B-563 | Analog input terminal |
| 20CH SCREW LESS INPUT TERMINAL | B-563SL | Analog input terminal |
| Base unit for input terminal | B-566 | Used for attaching each input terminal |
| Input terminal cover | B-588 | Mountable each analog terminal. Not mountable when B-551 Shunt resistor used |
| Connection cable for extension terminal (50cm) | B-567-05 | Connection cable (50cm) |
| Connection cable for extension terminal (2m) | B-567-20 | Connection cable (2m) |
| Battery Pack | B-573 | 1 pack: 7.2V(2875mAh) 2 packs can be mounted |
| Bracket for DIN rail for main body | B-570 | made-to-order |
| Bracket for DIN rail (for B-566) | B-540 | made-to-order |
| Input/Output cable for GL series | B-513 | 2 m long (no clip on end of cable) |
| DC drive cable | B-514 | 2 m long (no clip on end of cable) |
| Humidity sensor(*4) | B-530 | 3 m long (with power plug) |
| midi LOGGER storage case(*5) | B-581 | Support RoHS directive |
| Ultra-fine K type thermocouple | ST-55K-TC-1.2M | tip wire ϕ 0.127, 0.5X0.7X200mm, relaying 1m, -40 ~260°C, class2, 5 units |
| Shunt resistor 250 Ω (*7) | B-551-10 | \pm 250 Ω (0.1%), Rated power of 1 W Maximum operating voltage 15.8V |
| AC adapter for GL860 | ACADP-20 | Adapter for maintenance |

Terminal specifications *When using B-565 with other terminals, the lower withstand voltage will be applied.

| | WITHSTAND HIGH-VOLTAGE HIGH-PRECISION TERMINAL(B-565) | 30CH SCREW LESS INPUT TERMINAL (B-563SL-30) | 20CH SCREW INPUT TERMINAL (B-563) | 20CH SCREW LESS INPUT TERMINAL (B-563SL) |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------|---------------------------------------------|
| Number of CHs | 20ch/per terminal | 30ch/per terminal | 20ch/per terminal | |
| Measuring Voltage | 20mV-100V | | | |
| Temp. | Thermocouple K·J·E·T·R·S·B·N·C (old: W(WRe5-26)) | | | |
| | RTD (*three-wire system only) Pt100·JPt100·Pt1000(IEC751) | (*RTD cannot be connected) | | |
| Humidity | 0-100% (Optional humidity sensor B-530 is required) | | | |
| Max. input voltage | 20mV - 2V Range: 60Vp-p (between input terminal and (+) / (-) terminal), 5V -100V range: 110Vp-p (between input terminal and (+) / (-) terminal) | | | |
| | 600Vp-p (between input terminal and input terminal) | 60Vp-p (between input terminal and input terminal) | | |
| | 300Vp-p (between input terminal and GND) | 60Vp-p (between input terminal and GND) | | |
| Volt. measurement accuracy | \pm (0.05%off.F.S.+10 μ V) | | | |
| Dimensions (approx.) | 240x166x52.5mm (exclude protrusion) | | 240x158x52.5mm (exclude protrusion) | |
| Weight (approx.) | 1035g (without AC adapter & battery) | | 1010g (without AC adapter & battery) | |

*Weight and dimensions are the values including GL860.

Remote Control Service (G-REMOTE)

(*Additional charge for use)

| Item | Description |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported OS(*6) | Windows11/10 |
| Supported WEB browser | Google Chrome (recommended), Microsoft Edge, Firefox (*Internet browser supporting HTML5) |
| Service content | <Remote control service> Easy remote control and confirmation of measurement data from G-REMOTE on a browser via an Internet connection <Data Storage Service> Storing data on Graphtec cloud servers via Internet connection |

*For more information about product, please check the web site.

Software for PC

| Item | Description |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supported OS(*6) | Windows11/10 |
| GL28-APS | Allows for main unit settings and data recording, storage, and playback from a PC Supported models: GL860/GL260/GL840/GL240 Connectable units / channels: Max. 10 units / 1,000ch |
| GL-Connection | GL Series Integration Software Allows for main unit settings and data recording, storage, and playback from a PC Supported models: GL7000 Plus/GL2000/GL980/ GL860/GL840/GL260/GL240/GLT400 Connectable units: 20 / Max. 2000ch |

Calibration-related documents (Production Data)

| Item | Code | Description |
|-------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TEST CERTIFICATE | B-TEST | *The data of documents ordered at the time of product purchase are as of manufacture. Additional fee will be required to order documents with the latest data. |
| TRACEABILITY CHART | B-TRACE | |
| CALIBRATION CERTIFICATE | B-CAL | |

- *1 : Input/Output cable for GL (option B-513) is required.
- *2 : Recorded in 2GB per file, SD cards available, Supported SDHC, up to approx. 32GB memory
- *3 : If the ring setting and external sampling function is ON, the backup function is not available.
- *4 : Available temperature range: -25°C~+80°C (Special order/ 10m, 15m, 20m available)
- *5 : Not available in the US area.
- *6 : OS that are no longer supported by the OS manufacturer are not supported by Graphtec.
- *7 : 1 shunt resistor per channel is required. Cannot be used with screwless terminals.

- 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 back up 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.



Web page

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