



GL860
Isolierter Multi-CH-Datenlogger

ALTHEN
SENSORS & CONTROLS

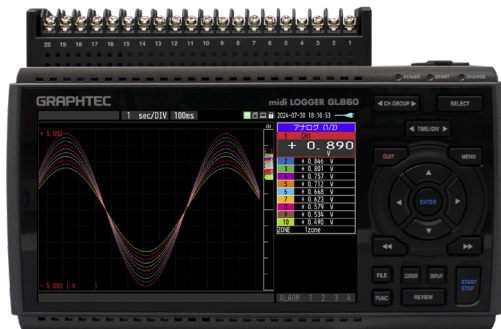


GL860
Isolierter Multi-CH-Datenlogger

GRAPHTEC

Flexible Optionen
mit 4 Anschlüssen

NEU
30CH
Terminal



Widerstandsfähig gegen Hochspannung / Hochpräzises Terminal

B-565

30CH Schraubenloses-Eingangsterminal

B-563SL-30

20CH Schrauben-Eingangsterminal

B-563

20CH Schraubenloses-Eingangsterminal

B-563SL

NEUE DIENSTLEISTUNG G-REMOTE

- Fernsteuerungsdienst
- Fernsteuerung des mit dem Internet verbundenen GL860
 - Datenspeicherdienst
- Speichern der aufgezeichneten Daten der GL-Serie auf einem Server
- *Zusätzliche Gebühr für die Nutzung



6 NEUE EIGENSCHAFTEN

Aufnahme-Optionen

- Schnelleres Abtastintervall
- Doppelt so schnell wie bei den Vorgängermodellen!

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 | Voltage | • | • | • | • | • | • | |
| | Temp. | | | | • | • | • | |

- Speicherschleifen-Funktion
- Zusätzliche Relay Capture Funktion für längere Aufnahmen
- CH-Kopierfunktion
- Einfache Einrichtung durch Kopieren der Verstärkereinstellungen für den Zielkanal
- Alarmverlaufsfunktion
- Einfaches Durchsuchen des Verlaufs von Datum und Uhrzeit abnormaler Ereignisse
- Verbesserter Inter-CH-Betrieb
- Vielfältigere Berechnungsoptionen als bei früheren Modellen
- Unterstützung von Modbus
- Kommunikationsfunktion mit Sequenzer über Modbus TCP

BENUTZERFREUNDLICHE FUNKTIONEN

- Langzeitaufnahmen sind möglich
- Integrierter 8-GB-Speicher oder SD-Karte

(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 2 | 4days 4 | 7days 5 | 4days | 108days | 270days | 366+ days | 366+ days |
| CSV format | 1day | 3days | 8days | 11days | 22days | 55days | 111days | 366+ days |

DATENÜBERTRAGUNG



*B-568 (optional item) is required

PC SOFTWARE

- GL-Verbindung
- eine integrierte Anwendungssoftware für die GL-Serie.
- GL28-APS
- Die Anwendungssoftware zur Verbindung von GL-Serie und PC.



GL860 SPEZIFIKATIONEN

| Item | Description |
|---|---|
| Number of analog inputs | Maximum 200ch available for 1 terminal(20ch/30ch) or extension unit |
| External input (*1) | Number of channels |
| | Pulse input |
| 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 |
| | Data format |
| 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 |
| | DC input |
| | Battery pack |
| 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 |

OPTIONEN

| 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 voltage15.8V |
| AC adapter for GL860 | ACADP-20 | Adapter for maintenance |



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SPEZIFIKATIONEN DER TERMINALS

*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)) | | | |
| Humidity | RTD (*three-wire system only) Pt100•JPt100•Pt1000(IEC751) | | (*RTD cannot be connected) | |
| | 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 | ±(0.05%ofF.S.+10µV) | | ±0.1%ofF.S. | |
| Dimenitions (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.

FERNSTEUERUNGSDIENST (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 FÜR 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 |
| GL-Connection | Connectable units / channels: Max. 10 units / 1,000ch 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 |

KALIBRIERUNGSBEZOGENE DOKUMENTE (PRODUKTIONS DATEN)

| 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 | |

*Please visit calibration services section of our website for details.

- *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.

- 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.



GL860_KE11005_ID