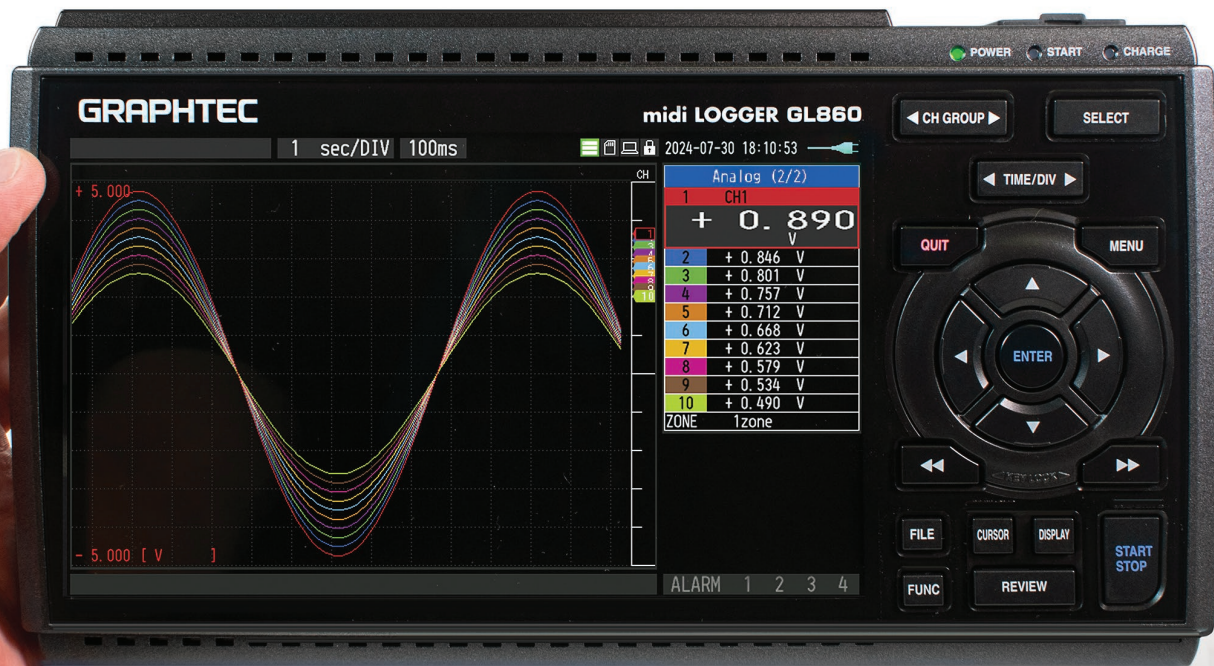


GRAPHTEC INSTRUMENTS

Isolated Multi-Channel **GL860** data LOGGER



Evolved

SIMPLE • PORTABLE • VERSATILE

4 TERMINALS for MORE FLEXIBILITY

NEW FEATURES including CLOUD ACCESS

Alarm History Function

- Easy search of event dates and history

Enhanced CH to CH Calculation

- New calculation functions added

Memory Loop Function

- Enables recording for longer periods of time

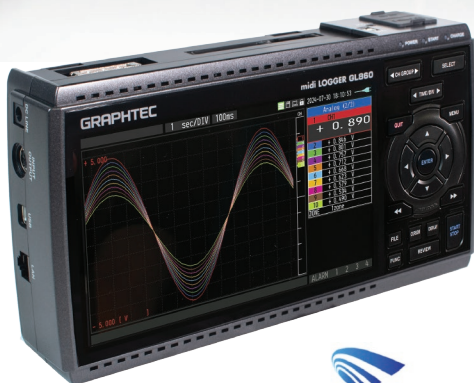


G-REMOTE

- Cloud Server Service
- Remote Control Service
- Data Storage Service

*Additional charge for use.

*Offered in limited areas only.



G-REMOTE

GRAPHTEC
Graphtec America, Inc.

GL860 data LOGGER

4 TERMINALS for MORE FLEXIBLE OPTIONS

NEW 30ch TERMINAL

20CH High Accuracy,
High Isolation Terminal
B-565

30ch Screwless Input Terminal
B-563 SL-30 **NEW**

20ch Screwless Input Terminal
B-563 SL

20ch Screw Input Terminal
B-563



*Terminals are not included. Please purchase separately.

GL860 TERMINAL SPECIFICATIONS



Terminal:	20ch High Accuracy, High Isolation Terminal B-565	30ch Screwless Input Terminal B-563 SL-30	20ch Screwless Input Terminal B-563SL	20ch Screw Input Terminal B-563
Number of CHs	20ch/per terminal	30ch/per terminal	20ch/per terminal	
Measuring	Voltage	20mV-100V		
	Temperature	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)	
Max. input voltage		0-100% (Optional Humidity Sensor B-530 is required)		
		20mV - 2 V Range: 60Vp-p (between input terminal and (+) / (-) terminal), 5V - 100 V range: 110Vp-p (between input terminal and (+) / (-) terminal)		
		600Vp-p (between input terminal and input terminal)	60Vp-p (between input terminal and input terminal)	
Volt Measurement Accuracy		300Vp-p (between input terminal and GND)	60Vp-p (between input terminal and GND)	
Dimensions (approx.)	±(0.05%oF.S.+10μV)	±0.1%oF.S.		
Weight (approx.)	240x166x52.5mm (exclude protrusion)	240x158x52.5mm (exclude protrusion)		
	1035g (without AC adapter & battery)	1010g (without AC adapter & battery)		

*Weight and Dimensions Values include GL860

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

GL860 data LOGGER

6 NEW FEATURES including G-REMOTE

Memory Loop Function

- Added relay capture function for longer recordings.

Alarm History Function

- Easily search the history of abnormal event dates and times.

Faster Sampling Interval

- Twice as fast as the previous models!

Enhanced Inter-CH Operation

- More various calculating options than previous models.

CH Copy Function

- Easy setup by copying the amp settings for the target channel.

Support Modbus

- Communication function with sequencer by Modbus TCP.

Maximum Sampling Interval of 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.				•	•	•	

USER FRIENDLY FEATURES

- 7" Color LCD Display
- 8GB internal memory, SDHC to 32GB
- 20mV to 100 Vdc & 1-5 Vdc full scale ranges
- Thermocouples: K, J, E, T, R, S, B, N, C, RTD
- 4 Pulse or Logic inputs, 4 Alarm Outputs
- 10ms to 1H sample intervals & ext. sample
- Independent start / stop triggers & ext. trigger
- Record to GBD or CSV file format
- USB 2.0, Ethernet & optional Wi-Fi capability
- GL28-APS / GL-Connection SW GUI / G-Remote capable
- Independent input type, alarm, trigger and EU scaling per channel

Long Time Recording Available

Built-in 8GB Memory or SD Card

*Sampling interval is limited by the number of channels in use. (data size: 2GB)

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

Wireless LAN

B-568 required (optional item)



WIRED LAN



USB 2



PC SOFTWARE

GL-Connection

- Integrated application software for the GL series.

GL28-APS

- Application software to connect GL series and PC.

NEW G-REMOTE CLOUD SERVICE

Remote Control Service

- Remotely control GL860 connected to the Internet.

Data Storage Service

- Store GL series recorded data on a server.



G-REMOTE

*Additional charge for use



GL860 data LOGGER

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	$\Delta\Sigma$ type, 16Bit (effective resolution: 1/40,000 of $\pm$ 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(2875 mAh)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

CALIBRATION (Production Data)

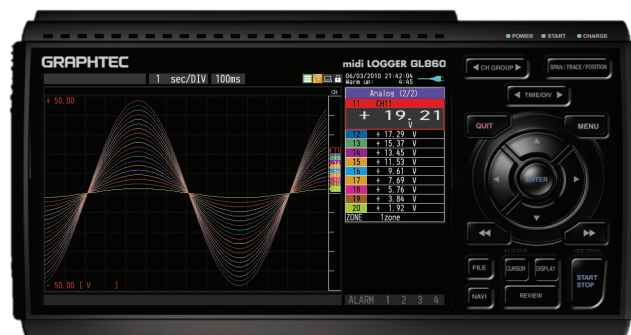
Item	Code
NIST-CAL	NIST calibration with cert.
NIST-CAL-DATA	NIST calibration with cert & data
ISO-17025-860	ISO-17025 calibration for GL860

*Documents ordered at the time of product purchase are data at the time of manufacture.

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

CLOUD SERVICE (G-REMOTE) (*Additional charge for use)

Item	Description
Supported OS (*5)	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 save service>
	Storing data on Graphtec cloud servers via Internet connection
* For more information about product, please check the web site	



OPTIONS

Item	Model	Description
GL Wireless LAN Unit	B-568	Standard: IEEE802.11 b/g/n Approx. Communication Distance: 40m
20CH High Accuracy, High Isolation Terminal	B-565	Analog input terminal
30CH Screwless Input Terminal	B-563SL-30	Analog input terminal
20CH Screw Input Terminal	B-563	Analog input terminal
20CH Screwless Input Terminal	B-563SL	Analog input terminal
Base unit for input terminal	B-566	Used for channel expansion
Shunt resistor 250 Ω	B-551-1	$\pm$ 250 Ω (0.1%), Rated power of 1 W,
Connection cable for extension terminal (50cm)	B-567-05	Expansion cable (50cm)
Connection cable for extension terminal (2m)	B-567-20	Expansion cable (2m)
Battery Pack	B-573	1 pack: 7.2V (2875mAh) 2 packs can be mounted
Input/Output cable for GL series	B-513	Input-Output cable for pulse-logic-alarm, 2m
DC drive cable	B-514	External DC cable, 8.5-24vdc, 2m
Humidity sensor (*4)	B-530	3 m long (with power plug)
Type K TC adapter	TC-K-5	Type K mini-connector-spade lugs, 12", 5 pk
Type T TC adapter	TC-T-5	Type T mini-connector-spade lugs, 12", 5 pk

SOFTWARE SPECIFICATIONS 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 / GL2000 / GL980 / GL860 / GL840 / GL260 / GL240 / GLT400
Connectable units:	20 / Max. 2000ch

*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: Operating temperature range: -25°C to +80°C

*5: OS that are no longer supported by the OS manufacturer are not supported by Graphtec

- 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 specifications.