



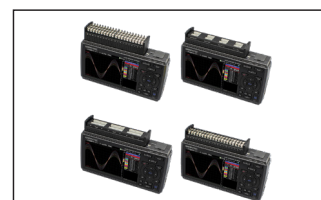
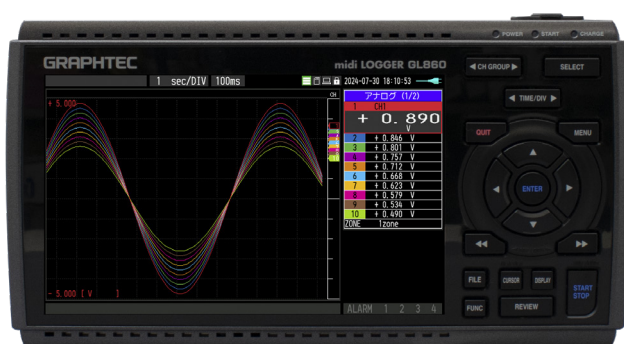
GL860

Isolated Multi-CH data Logger

GRAPHTEC

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

NEW SERVICE G-REMOTE

- Remote Control Service
 - Remotely control GL860 connected to the Internet
- Data Storage Service
 - Store GL series recorded data on a server

*Additional charge for use



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

DATA COMMUNICATION



*B-568 (optional item) is required

PC SOFTWARE

- GL-Connection
 - an integrated application software for the GL series.
- GL28-APS
 - The application software to connect GL series and PC.



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)
		Revolutions mode, Counts mode, Inst. mode
	Pulse input	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℃, 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-569 / B-573	7.2/2900mAh / 7.2V/2875mAh (2packs)
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)
mini 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



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)	(*RTD cannot be connected)	
		Pt100•JPt100•Pt1000(IEC751)		
	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	±(0.05%ofF.S.+10μV)		±0.1%ofF.S.	
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
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

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	

*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