GRAPHTEC

Isolated Multi-CH data LOGGER
GL860

Product details

Downloads

Flexible Options with 4 Terminals
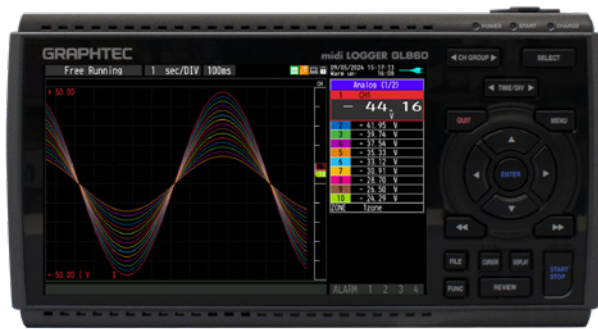
NEW
30CH terminal

+

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

Recording options

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

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

USB   Wired LAN   Wireless LAN*

*B-568 (optional item) is required
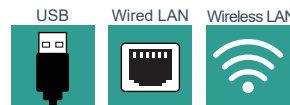
PC Software

*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.

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		ΔΣ 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℃ when operated in batteries/15 to 35℃ 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)
Dimentions [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 φ0.127, 0.5X0.7X200mm, relaying 1m, -40 -260℃, class2, 5 units
Shunt resistor 250Ω (*7)	B-551-10	±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) Pt100・JPt100・Pt1000(IEC751)	(*RTD cannot be connected)		
	Humidity	0-100% (Optional humidity sensor B-530 is required)			
Max. input voltage		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)		
		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.		
Dimentions (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	

Check our website for more information!

Product details

Downloads

*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℃~+80℃ (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.