GRAPHTEC INSTRUMENTS

Isolated Multi-Channel GL860 data LOGGER





GRAPHTEC Graphtec America, Inc.

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.

GL860 data LOGGER

4 TERMINALS for MORE FLEXIBLE OPTIONS



*Terminals are not included. Please purchase separately.

	TERMINAL ICATIONS						
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 C	Hs	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))					
		RTD (*three-wire system only) Pt100 •JPt100 •Pt1000(IEC751)	(*RTD cannot be connected)				
Humidity		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)					
Max. input v	voltage	600Vp-p (between input terminal and input terminal)	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) Dimensions (approx.) 240x166x52.5mm (exclude protrusion) Weight (approx.) 1035g (without AC adapter & battery)		±0.1%ofF.S.					
		240x166x52.5mm (exclude protrusion)	240x158x52.5mm (exclude protrusion)				
		1035g (without AC adapter & battery)	1010g (without AC adapter & battery)				

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!

Maximum Sampling Interval of 5ms						*settings required			
By limiting	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

Enhanced Inter-CH Operation

CH Copy Function

- More various calculating options than previous models.

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

- USB 2.0, Ethernet & optional Wi-Fi capability
- GL28-APS / GL-Connection SW GUI / G-Remote capable

Wireless LAN

B-568 required (optional item)

WIRED LAN

USB 2

• Independent input type, alarm, trigger and EU scaling per channel

 Long Time Recording 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	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

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.



GL860 data LOGGER

GL860 MAIN UNIT SPECIFICATIONS

ltem		Description		
Number of anal	og 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 interv	al	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 ± range)		
PC I/F		Ethernet (10BASE-T / 100BASE-TX) USB2.0 (Hi-SPEED) ,Wireless LAN (Option)		
Storage media Storage (*2) Data format		Built-in memory: approx. 8GB, SD card slot: 1		
		GBD, CSV		
Recording mod	е	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 envir (including termi		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		
Dimentions [Wxl	DxH] (approx.)	(*Refer to terminal specifications)		
Weight (approx	.)	(*Refer to terminal specifications)		
Vibration resista	ance	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

*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 (reccomended), Microsoft Edge, Firefox
		(*Internet browser supporting HTML5)
	Service content	<remote control="" service=""></remote>
		Easy remote control and confirmation of measurement data
		from G-REMOTE on a browser via an Internet connection
		<data save="" service=""></data>
		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. Dommunication 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 250Ω	B-551-1	±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 (2875 mAh) 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

ltem	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 / 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

GL860 KE11005 1D

- *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.	1
	i • To avoid malfunction or an electric shock by current leakage or voltage, please ensure a ground connection and use according to specifications.	



DATA LOGGERS that Capture ALL your DATA... NOT All your BUDGET!