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Autorisierter GRAPHTEC
Distributor



GL860
Isolated Multi-CH data Logge





### **GL860**

Isolated Multi-CH data Logger

# **GRAPHTEC**

# Flexible Options with 4 Terminals













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

<sup>\*</sup>Terminals are not included. Please purchase separately.

<sup>\*</sup>Additional charge for use



#### 6 NEW FEATURES

Faster sampling interval

Recording options

- 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	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 ana	alog inputs	Maximum 200ch available for 1 terminal(20ch/30ch) or extension unit		
External input	Number of channels	Trigger of Sampling (1 channel), or External Sample Inputs 1ch		
(*1)		Logic / Pulse (4 channel)		
	Pulse input	Revolutions mode, Counts mode, Inst. mode		
		Maximum input frequency: 50kHz		
		Maximum number of count: 50kC/sampling		
External output	it (*1)	Alarm output: 4ch		
Sampling inter	val	5ms-1h (5ms-50ms: voltage only, limited number of CH), External signal		
Scaling function	n	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	Storage	Built-in memory: approx. 8GB, SD card slot: 1		
(*2)	Data format	GBD, CSV		
Recording mo	de	Default, Ring, Relay		
Other function	s	Calculation function, Trigger, Alarm function, Data backup function (*3)		
Display		7-inch TFT color LCD (WVGA: 800 x 480 dots)		
Operating env	ironment	0-45\(\times\) ,5-85\(\times\)RH		
(including term	ninals)	(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)		
Dimentions [Wx	DxH] (approx.)	(*Refer to terminal specifications)		
Weight (appro	x.)	(*Refer to terminal specifications)		
Vibration resis	tance	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)
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°C, 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



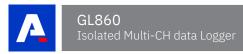
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#### TERMINAL SPECIFICATIONS

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

	Withstand high-voltage high-precision terminal	30CH SCREW LESS INPUT TERMINAL	20CH SCREW INPUT TERMINAL	20CH SCREW LESS INPUT TERMINAL		
	(B-565)	(B-563SL-30)	(B-563)	(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 - 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 termin		d GND)			
Volt. measurement	±(0.05%ofF.S.+10µV)	±0.1%ofF.S.				
accuracy						
Dimentions (approx.)	240x166x52.5mm (exclude protrusion)	240x158x52.5mm (exclude protrusion)				
Weight (approx.)	1035g (without AC adapter & battery)	1010g (without AC adapter & battery)				

<sup>\*</sup>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=""></remote>		
	Easy remote control and confirmation of measurement data		
	from G-REMOTE on a browser via an Internet connection		
	<pre><data service="" storage=""></data></pre>		
	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
TRACEABILITY CHART	B-TRACE	are as of manufacture. Additional fee will be required to order
CALIBRATION CERTIFICATE	B-CAL	documents with the latest data.

<sup>\*</sup>Please visit calibration services section of our website for details.

: Input/Output cable for GL (option B-513) is required.

\*2 \*3 \*4 : Recorded in 2GB per file, SD cards available, Supported SDHC, up to approx. 32GB memory  $\,$ 

: If the ring setting and external sampling function is ON, the backup function is not available. : Available temperature range: -25°C~+80°C (Special order/ 10m, 15m, 20m available)

\*5 Not available in the US area.

OS that are no longer supported by the OS manufacturer are not supported by Graphtec

1 shunt resistor per channel is required.

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.

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.
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