$\frac{\text{midi LOGGER}}{GL840}$

Quick Start Guide 604849022 GL840-UM-852



GRAPHTEC

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Thank you for choosing Graphtec midi LOGGER GL840. The Quick Start Guide is to assist you with basic operations. Please refer to the USER' S MANUAL (PDF) in the CD-ROM for more in-depth information.

Check the exterior of the unit to ensure that there are no cracks, defects, or any other damages before use.

Accessories

- Quick Start Guide : 1 Ferrite core: 1 CD-ROM : 1
- AC cable/AC adapter : 1

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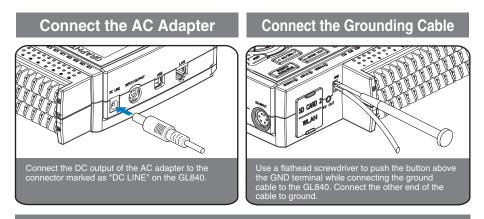
Nomenclature **Top Panel** Analog signal input terminals Power jack for humidity sensor Standard terminal (B-564) Withstand High Voltage high-precision terminal Humidity sensor (Option: when using the B-530) (B-565) Wireless LAN connection termina Wireless unit (Option: when using the B-568) 5 1810,7 0819 66 SD CARD2 GND terminal Front Panel GS sensor and terminal/ adapter connection termin rnal input/output terminals (Option: when using • Temperature and humidity sensor • 4ch voltage/temperature terminal • 3-axis acceleration/temperature sensor eration status LED • LOGIC/PULSE • EXT TRIG/SAMPLE • ALARM 0 • POWER • START • CHARGE 4ch thermistor terminal Input/out put cable for GL Adapter for AC current sensor CO2 sensor Illumination/ultraviolet sensor AC adapter jack (Cable is the option B-513) · Branch adapter for GS.) POTER O START O SHARES ______ GRAPHTEC 10°31 midi LOGGER GL840 Ē 1 0168/0010 :::: -CANIDAL (MT) 9 1899 Ū. B/TE: ťΪ - dd (8 001) HING _____ LAN interface terminal USB interface terminal Control panel keys Power switch Monitor ╗<mark>╘╍┨┥┥┥┥┥┙┙┙┙┥┥┥┙┙┙┙┙┙┙┙┙┙┙┙┙┙┙┙┙</mark> **Bottom Panel** A C C C Street Tilt foot CROAL (FPF) IRI IПI AWR WARNING Label 1954 Contraction of the Party of the Battery cover Two battery pack can be installed (Battery pack is the option B-569)

2

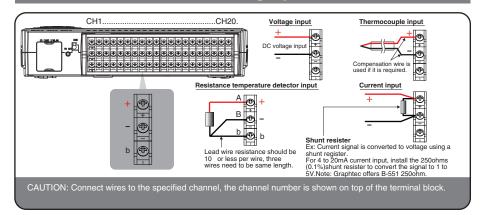
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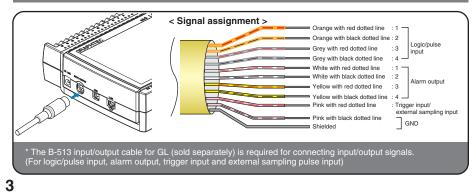
Connection Procedures



Connect to the Analog Input Terminals



Connect the External Input/Output Cable

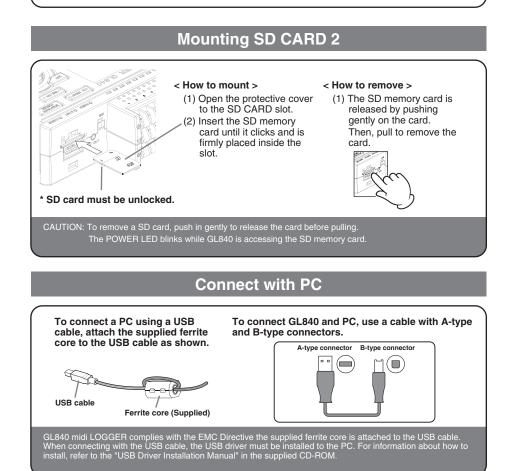


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Internal memory

- The internal memory is displayed as SD1 or SD CARD1
- The internal memory is not removable.



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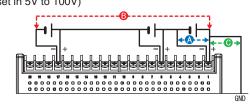
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Safety Guide for using GL840

Maximum input voltage of standard terminal (B-564)

If a voltage exceeding the specified value goes into the instrument, the electrical relay in the input will be damaged. Never input voltage level exceeding the specified value at any moment.

- < Between +/- terminals(A) >
- Maximum input voltage: 60Vp-p (Ranges set in 20mV to 2V) 110Vp-p (Ranges set in 5V to 100V)
- < Between Channel to channel (B) >
- Maximum input voltage: 60Vp-p
- Withstand voltage: 350 Vp-p at 1 minute
- < Between Channel to GND (C) >
- Maximum input voltage: 60Vp-p
- Withstand voltage: 350 Vp-p at 1 minute



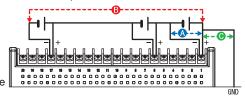
Maximum input voltage of Withstand High Voltage high-precision terminal (B-565)

If a voltage exceeding the specified value goes into the instrument, the electrical relay in the input will be damaged.

Never input voltage level exceeding the specified value at any moment.

< Between +/- terminals(A) >

- Maximum input voltage: 60Vp-p (Ranges set in 20mV to 2V) 110Vp-p (Ranges set in 5V to 100V)
- < Between Channel to channel (B) >
- Maximum input voltage: 600Vp-p
- Withstand voltage: 600Vp-p
- < Between Channel to GND (C) >
- Maximum input voltage: 300Vp-p
- Withstand voltage: 2300 VACrms at 1 minute



Warm-up

GL840 requires approximately 30 minutes warm-up time to deliver the optimum performance.

Unused channels

The analog input section can frequently have cases of impedance. Left open, measured value may fluctuate due to noise. To rectify, set unused channels to "Off" in the AMP setting menu or short the + and -- terminals for better result.



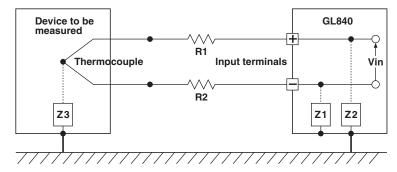
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Noise countermeasures

If measured values fluctuate due to extraneous noise, run the following countermeasures.(Results may vary according to types of noise issues.)

Ex 1 : Connect the GL840's GND input to ground.



- Ex 2 : Connect GL840's GND to measurement object's GND.
- Ex 3 : Operate GL840 with batteries (Option: two B-569 batteries).
- Ex 4 : In the AMP settings menu, set filter to any setting other than "OFF".
- Ex 5: Set the sampling interval which enables GL840's digital filter (see table below).

Number of Measuring Channels ^{*1}	Allowed Sampling Interval	Sampling Interval which enables Digital Filter
1 Channel or less	10 msec or slower *2	50 msec or slower
2 Channels or less	20 msec or slower *2	125 msec or slower
5 Channels or less	50 msec or slower *2	250 msec or slower
10 Channels or less	100 msec or slower	500 msec or slower
11 to 20 Channels	200 msec or slower	1 sec or slower
21 to 50 Channels	500 msec or slower	2 sec or slower
51 to 100 Channels	1 sec or slower	5 sec or slower
101 to 200 Channels	2 sec or slower	10 sec or slower

*1 Number of Measuring Channels is the number of active channels channels in which input settings are set to a value and NOT to "OFF" .

*2 Temperature are not measured when the sampling interval is set to 50 ms or faster.

In the "OTHER" menu, the commercial power frequency to be used must be set.

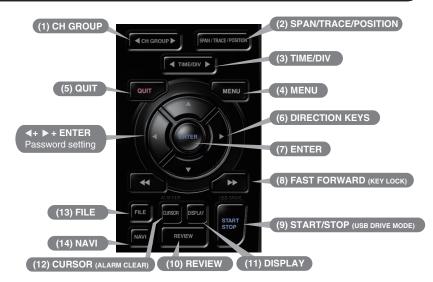
Set the AC power frequency to be used.

Select items	Description
50 Hz	Area where the power frequency is 50 Hz
60 Hz	Area where the power frequency is 60 Hz

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Descriptions of the Control Panel Keys



1. CH GROUP

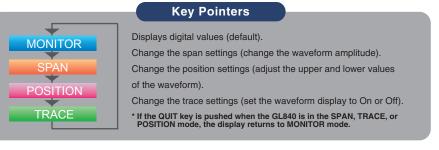
Push the key to switch to the next group consisting of 10 channels. Push the \blacktriangleleft key to switch to the previous group.

Push the \blacktriangleright key to switch to the following group.

* When installing the GS sensor and terminal/module (sold separately), the following group display is viewed.

2. SPAN/TRACE/POSITION

The SPAN, TRACE and POSITION keys set the range, display, and position settings for individual channels. When the key is pushed, the display mode changes in the sequence shown below. Use the \blacktriangle and \triangledown keys to select the channel, and the \triangleleft and \triangleright keys to change the setting values.



3. TIME/DIV

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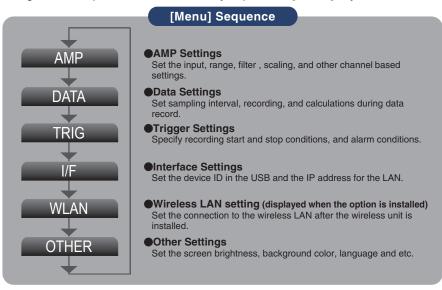
Push the [TIME/DIV] key to change the time axis display range on the waveform screen.

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4. MENU

Push the [MENU] key to open a setup menu. As you push the setup screen tabs change in the sequence shown below as you push the [MENU] key.



5. QUIT (LOCAL)

Push the [QUIT] key to cancel the settings and return to default status. When you cancel the connection on the application, the GL840 is automatically sent back to local mode. If local mode is not entered, push the[QUIT] key.

6. 🔘 Keys (DIRECTION KEYS)

Direction key are used to select menu setup items, to make span settings in the digital display area, or to move the cursors during a data replay operation.

7. ENTER

Push the [ENTER] key to submit the setting and to confirm your settings.



Fast forward and rewind keys are used to move the cursor quickly during replay or change operation. Hold down both keys simultaneously for at least two seconds to lock the key buttons. To cancel key lock status, push them again for at least two seconds.

The key lock status can be confirmed by the status of the key lock lamp on the monitor.

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9. START/STOP (USB DRIVE MODE)

Push the [START/STOP] key to initiate start and stop of recording while the GL840 is in the Free Running status.

If the key is pushed while turning the power to the GL840 on the unit will switch from the USB connection mode to USB DRIVE mode.

* For more information about the Drive Mode of the USB, refer to the User's Manual in the supplied CD.

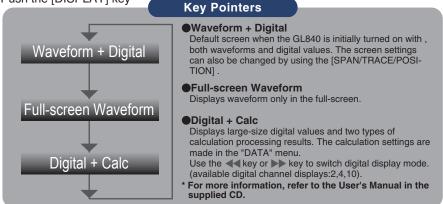
10. REVIEW

Push the [REVIEW] key to replay recorded data. If the GL840 is in the Free Running status, data files that have already been recorded will be replayed. If the GL840 is still recording data, the data is replayed in a 2-screen format.

* A data replay operation will not be performed if data has not been recorded.

11. DISPLAY

Push the [DISPLAY] key



12. CURSOR (ALARM CLEAR)

Push the [CURSOR] key to switch between the A and B cursors during data replay. If the Alarm setting has been specified as "Alarm Hold", push the key to clear the alarm.

The alarm settings are made in the "TRIG" menu.

13. FILE

This is used to operate the internal memory (SD1) and SD memory card (SD2), or for file operation, screen copy, and save/load carrent settings.

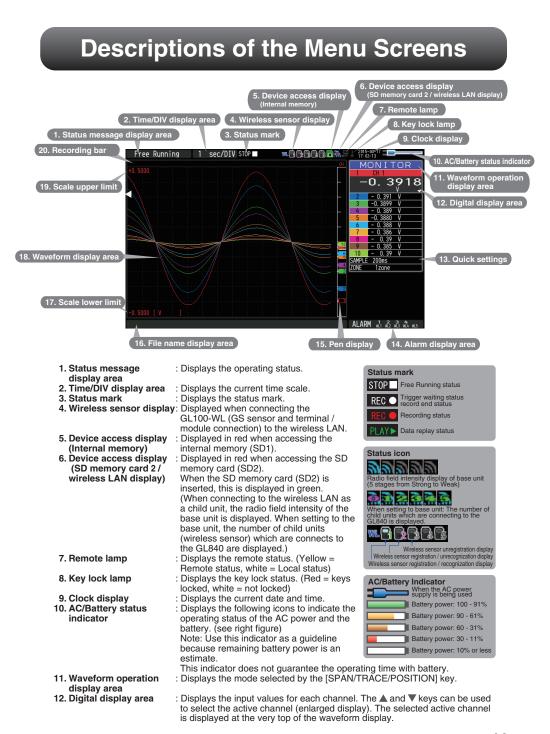
14. NAVI

When this key is pressed during free-running, you can perform the setting easily on the menus of the easy capture setting, easy trigger setting, and wireless LAN connection setting (available only when the wireless unit is inserted.).

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13. Quick settings	: Displays items that can be easily set. The \blacktriangle and \bigtriangledown keys can be used to activate make a Quick settings item, and the \triangleleft and \triangleright keys to change the values.		
14. Alarm display area	: Displays the status of the alarm output. (Red = alarm generated, white = alarm not generated)		
15. Pen display	: Displays the signal positions, trigger positions, and alarm ranges for each channel. (see right figure)		
16. File name display area	: Displays the recording file name during the recording operation. When data is being replayed, the display position and cursor information are displayed here.		
17. Scale lower limit	: Displays the lower limit of the scale of the currently active channel.		
18. Waveform display area 19. Scale upper limit 20. Recording bar	 The input signal waveforms are displayed here. Displays the upper limit of the scale of the current active channel. Indicates the remaining capacity of the record media during recording. When data is being replayed, the display position and cursor information are displayed here. 		

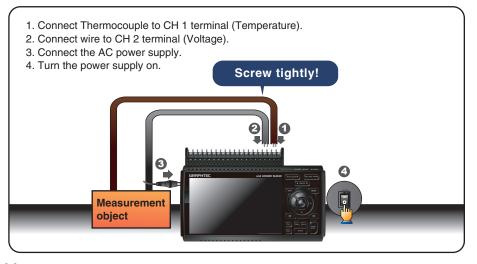
Measurement Procedure

A basic information on the data recording process: Preparations -> Setup ->Record -> Replay.

Example: Voltage and temperature measurements.

Purpose	: To measure voltage and the temperature of the target
Temperature Range	: T type Thermocouple, 100°C
Voltage range	: 1V
Sampling interval	: 1 sec
Data save destination	: Internal memory (SD1)

1. Preparations : Hardware set up for Data Recording



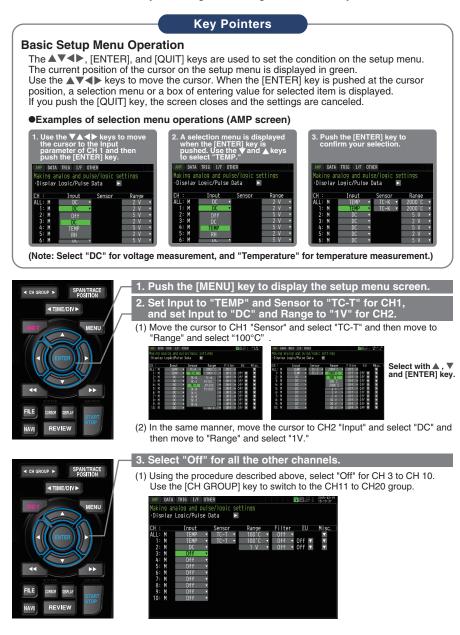


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2. Setup : Menu Operation

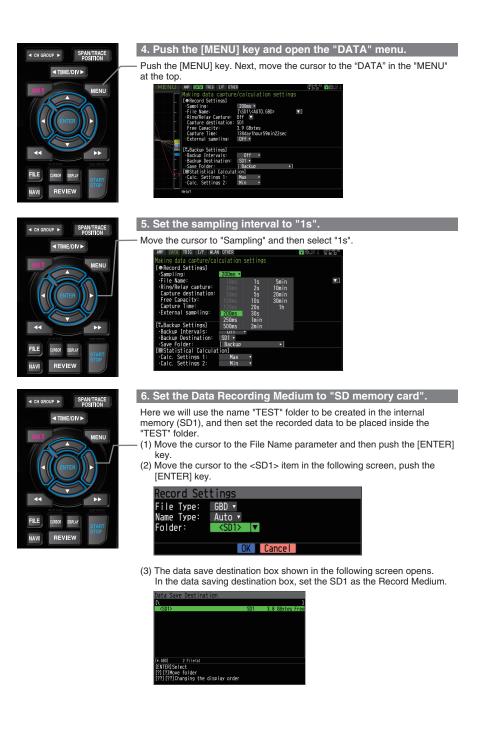
Select the setting for only the channels being used. Make sure to turn off unused channels. It is unnecessary to change all setting from the factory default.





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(4) Go to the "SD1" level using the ▶ key.



Move the cursor to the "Create New Folder" icon using the ▲▼ keys and then push the [ENTER] key. The Input menu will be displayed.



(5) A text input box will be displayed. Create a folder named "TEST".
(1) In the text type select; delete; insert; confirm items, move the cursor to the A using the ◄ and ▶ keys.
(2) The selected text is displayed.

During the text select, move the cursor to the text using the \blacktriangle , \bigtriangledown , \triangleleft and \triangleright keys and then push the [ENTER] key. Input "TEST", move the cursor to [OK], and then push the [ENTER] key

to enter your setting. New folder name: TEST KaOt++ OK [Alph Big] ABCDEFGHIJKLMN0 PQRSTUVWXYZ. [↑ ↓ ←→]Select [←→]Back, [→→]Forward



 (6) Select the "TEST" folder and then push the [ENTER] key to return to the record setting screen.

(7) Move the cursor to other and then push the [ENTER] key.

Record Set	tings		
	GBD 🔻		
Name Type:	Auto 🔻		
Folder:	<test></test>		
	OK	Cancel	

/ [QUITT] Fyit

Data records using the automatic file naming which includes date and time stamp in the file name located in the internal memory (SD1).

(8) Available space in specified memory and available data recording time are displayed in the lower part of the Record Settings menu.

AMP DATA TRIG I/F OTHE	R 📃 🗌 🗖 🖻 🖓	2015-03-30
Making data capture/ca	culation settings	
[Record Settings]		
·Sampling:	1s •	
·File Name:	[\SD1\TEST\ <auto. gbd=""></auto.>	$\mathbf{\nabla}$
·Ring/Relay capture:	Off 🔽	
Capture destination:	SD1	
Free Capacity:	3.8 GBytes	
Capture Time:	366day over	
•External sampling:	Off 🗸	

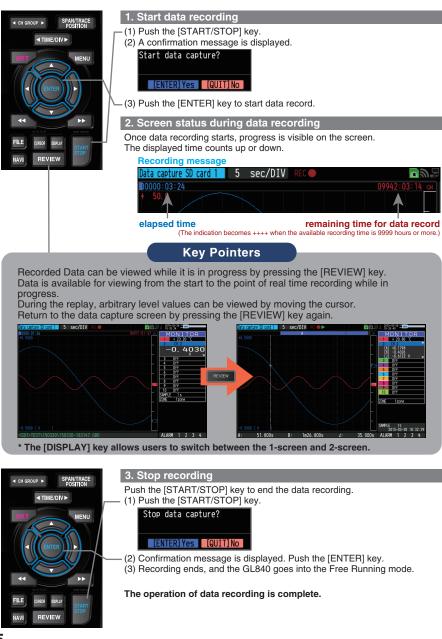
Minimum required setting for data record is now complete.

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3. Data record : How to Record

Once required settings are saved, you can record data while it is in process. Recoded data is available for replay.





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4. Data Replay : How to Replay Recorded Data

When recording has been completed data is automatically replayed. The automatically replayed data is the data recorded to the internal memory (SD1) which has been set as the data capture destination. Push the [QUIT] key to end the data replay operation.



GL840 has many additional features. Please refer to the following pages for details.

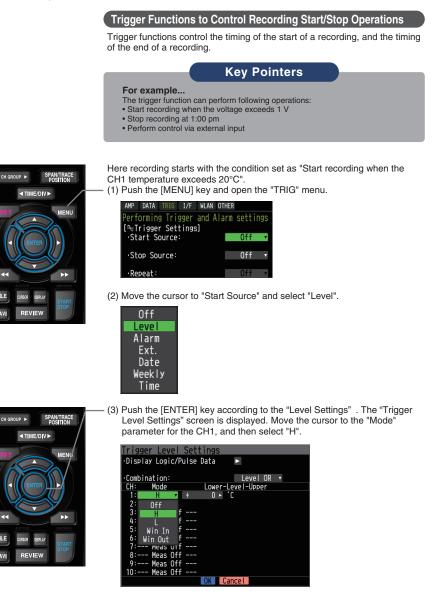
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Additional features

The GL840 has various functions that enhances and allows data to be collected and displayed more effectively.

The following three functions describes these details.





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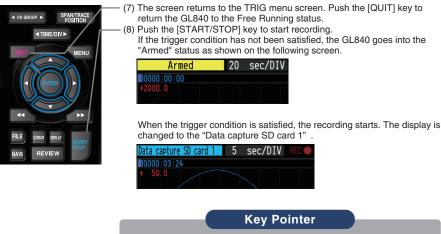


- (4) Move the cursor to the "Level" parameter next to the "Mode" parameter and then push the [ENTER] key.
- (5) The input box shown in the following screen is displayed. Select "20". Use the ◀ and ▶ keys to move to the cursor to the second digit from the right, and the ▲ and ▼ keys to change the value. Push the [ENTER] key.



- Numerical value input box Lower and upper limit for setting. Waveform area for confirmation •Use the ▲ and ▼ keys to change the values.
- •Use the **d** and **keys** to move the digit.
- •Use the [ENTER] key to enter the value.
- •Use the [QUIT] key to cancel the setting.
- (6) When the screen changes to the following screen, move the cursor to the OUK button and then push the [ENTER] key.

Trigger Lev	/el Sett	tings		
·Display Logi	ic/Pulse	Data		
·Combination:			Edge OR	T
CH: Mode		Lower-Le	evel-Upper	
1: H	v +	20 🕨	2	
2: Off	V			
3: Meas	Off			
4: Meas	Off			
5: Meas	Off			
6: Meas				
7: Meas				
8: Meas				
9: Meas				
10: Meas	Off			
		OK Car	ncel	

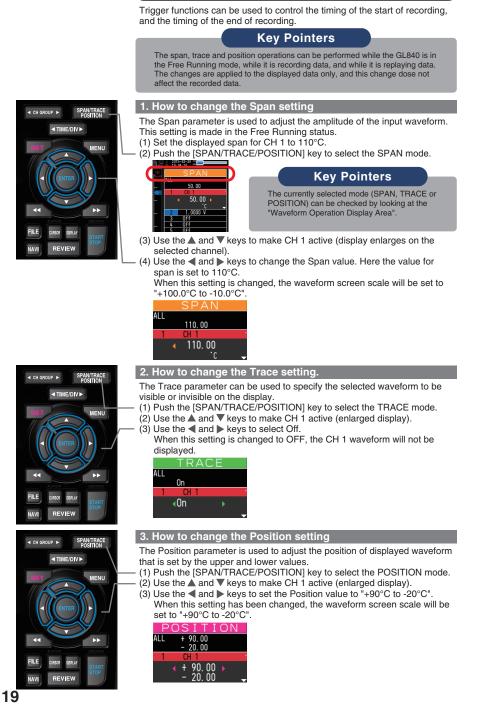


The trigger can easily set from the "Easy trigger setting" menu in the navigation display by pushing the [NAVI] key.

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Span, Trace and Position Functions to Adjust the Waveform Display



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Specifications

Standard Specifications

Item	Description					
Number of analog channel	GL8	40-M or GL8	40-WV			
	(200	h per 1 termi	nal or maximu	ım 200ch avai	lable with ext	tension unit)
External input and	Trig	ger input and	External sam	pling (1ch),		
output functions	Logi	c input (4ch)	or Pulse input	(4ch), Alarm	output (4ch)	
PC interface	Ethe	ernet (10BAS	E-T/100BASE	-TX),		
	USE	8 (HighSpeed	supported) p	rovided as sta	ndard feature	es
Built-in memory device	Inter	rnal memory	(SD1) : approx	k. 4GB		
	SD (CARD2 slot:	1 (Compatible w	ith SDHC, up to	approx. 32GByt	te memory available)
	* Pos	sible to save up	to 2GB for one	file		
Number of analog channel	10m	s/1ch MAX (GBD/CSV forr	nat)		
	10/2	0/50/100/125	5/200/250/500	ms, 1/2/5/10/2	20/30sec	
	1/2/	5/10/20/30mii	n, 1hour, Exte	rnal		
	* Allo	wable setting va	ries with the input	setting and the n	umber of measu	rement channels.
Back-up functions	Setu	p parameters	s: EEPROM/C	lock: Lithium	battery	
Clock accuracy	±0.0	02% (approx	. 50 seconds	per month)		
(ambient temperature 23°C)						
Operating environment		45°C, 5 to 85				
	(0 to	40°C when	operated in ba	tteries/15 to 3	35°C when ba	attery is charging)
Power supply			to 240 VAC,			
			24 VDC (26.4	,		
	Batt	ery pack (opt	ion) : 7.2 VDC	; (2900 mAh),	two packs re	quired
Power consumption	<u> </u>	power consur	<u> </u>	sing the AC adapt		standard accessory
	No		Condition		Normal	During recharging battery
	1	When the L	CD is on	AC100 V	24 VA	38 VA
	2	M/bon the sever	saver is operating	AC240 V AC100 V	35 VA 19 VA	55 VA 33 VA
	2	when the screer	i saver is operating	AC100 V AC240 V	27 VA	49 VA
	DC	current consu	Imption * Norn			
	No			lition	Normal	During recharging battery
	1	.04.1/	When the LC	D is on	0.36 A	0.65 A
	+24 V				0.56 A	
Display	7-ind	7-inch TFT color LCD display (WVGA800 × 480 dots)				
Display language	Japanese, English, French, German, Chinese, Korean, Russian, Spanish					
External dimensions	GL840-M (with standard terminal): 240 x 158 x 52.5 mm					
(approximate)	GL840-WV (Withstand High Voltage high-precision terminal): 240 x 166 x 52.5 mm					
Weight	GL840-M (with standard terminal): 1,010g, GL840-WV (Withstand High Voltage					
(approximate)	-	high-precision terminal): 1,035 g $$ * AC adapter and battery are not included.				
Vibration- tested conditions	Equ	Equivalent to automobile parts Type 1 category A classification				

External Input/Output Functions

Item	Description
Input specifications	Maximum input voltage : 0 to +24V (single-ended ground input)
(pulse/logic, trigger/	Input threshold voltage : approximate +2.5 V
External sampling)	Hysteresis : approximate 0.5 V (+2.5 V to +3 V)
Alarm output	Output format : Open collector output (5 V, 10 k pull-up resistance)
specifications	* Refer to the User's Manual in the supplied CD-ROM for more information.

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Common specification of the terminal in the input section ^{*} The following specifications are common to GL840-M and GL840-WV.

Item		Description		
Number of inp	out channels	M3 screw type, 20 channels (maximum 200 channels with extension unit)		
Method		Photo MOS relay scanning system, all channels isolated, balanced input		
Measurement	Voltage	20/50/100/200/500 mV, 1/2/5/10/20/50/100 V, 1-5 V F.S.		
accuracy	Temperature	Thermocouple : K, J, E, T, R, S, B, N, W (WRe5-26)		
		Resistance temperature detector : Pt100, JPt100, Pt1000 (IEC751)		
		Measurement accuracy : 100°C, 500°C, 2000°C		
	Humidity	0 to 100% (voltage 0 V to 1 V scaling conversion)		
A/D converter		16-bit Delta-Sigma A/D converter (Effective resolution: approx. 1/40,000 of ± range)		
Temperature	coefficient	Gain : 0.01% of F.S./°C $$ * Occurs when sampling speed is 10 ms/20 ms or 50 ms.		
		Zero : 0.02% of F.S./°C		
Common mode	rejection ratio	At least 90 dB (50/60 Hz; signal source 300 or less)		
Noise At lea		At least 48 dB (with +/- terminals shorted)		

Specification of input section (GL840-M with standard terminal)

Item	Description				
Measurement accuracy *1 (23°C ±5°C)	Voltage: ±0.1% of F.S. Thermocouple *1: Thermocouple diameters T, K: 0.32, others: 0.65				
When 30 minutes or more have elapsed after	Туре	Measurement Temperature Range	Measurem	ent Accuracy	
power was switched on		0 TS 100°C	±5.2°C		
 Sampling 1 s/20 ch 	R/S	100 <ts 300°c<="" td=""><td>±3.0°C</td><td></td></ts>	±3.0°C		
 Filter ON (10) 	П 8/2	R: 300 <ts 1600°c<="" td=""><td>± (0.05% of</td><td>rdg +2.0°C)</td></ts>	± (0.05% of	rdg +2.0°C)	
 GND connected 		S: 300 <ts 1760°c<="" td=""><td>± (0.05% of</td><td>rdg +2.0°C)</td></ts>	± (0.05% of	rdg +2.0°C)	
	В	400 TS 600°C	±3.5°C		
		600 <ts 1820°c<="" td=""><td>± (0.05% of</td><td>rdg +2.0°C)</td></ts>	± (0.05% of	rdg +2.0°C)	
	к	-200 TS -100°C	± (0.05% of	rdg +2.0°C)	
		-100 <ts 1370°c<="" td=""><td>± (0.05% of</td><td></td></ts>	± (0.05% of		
	E	-200 TS -100°C	± (0.05% of	rdg +2.0°C)	
		-100 <ts 800°c<="" td=""><td>± (0.05% of</td><td></td></ts>	± (0.05% of		
	Πт	-200 TS -100°C	± (0.1% of r		
		-100 <ts 400°c<="" td=""><td>± (0.1% of r</td><td>dg +0.5°C)</td></ts>	± (0.1% of r	dg +0.5°C)	
	J	-200 TS -100°C	-	±2.7°C	
		-100 <ts 100°c<="" td=""><td>-</td><td colspan="2">±1.7°C</td></ts>	-	±1.7°C	
		100 <ts 1100°c<="" td=""><td></td><td colspan="2">± (0.05% of rdg +1.0°C)</td></ts>		± (0.05% of rdg +1.0°C)	
	N	-200 TS<0°C		± (0.1% of rdg +2.0°C)	
		0 TS 1300°C	± (0.1% of r		
	W	0 TS 2000°C	± (0.1% of r	dg +1.5°C)	
	Reference contact compensation ±0.5°C				
	Resista	ance temperature detecto	r * 3-wire system		
	Тур	e Measurement Temperature Range	Applied current	Accuracy	
	Pt10		1mA	±1.0°C	
	JPt1		1mA	±0.8°C	
	Pt1000 -200 to 500°C 0.3mA ±0.8°C				
Maximum input voltage	Between +/- terminals : 20mV to 2Vrange (60Vp-p) 5V to 100V range (110Vp-p)				
	Between input terminal/input terminal : 60Vp-p				
	Between input terminal/GND : 60Vp-p				
Withstand voltage	Between input terminal/input terminal : 1 minute at 350Vp-p				
	Between input terminal/GND : 1 minute at 350Vp-p				



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Specification of input section (GL840-WV Withstand High Voltage high-precision terminal)

Item	Description				
Measurement accuracy *1 (23°C ±5°C)	Voltage : ± (0.05% of F.S. +10 μV) Thermocouple *1: Thermocouple diameters T, K: 0.32 , others: 0.65				
When 30 minutes or more have elapsed after	Туре	Measurement	Measurem	Measurement Accuracy	
		Temperature Rang			
power was switched on • Sampling 1 s/10 ch • Filter ON (10) • GND connected		0 TS 100°C	±4.5°C		
		100 <ts 300°c<="" td=""><td>±3.0°C</td><td></td></ts>	±3.0°C		
	R/S	R: 300 <ts 1600°c<="" td=""><td>±2.2°C</td><td colspan="2"></td></ts>	±2.2°C		
	II 1	S: 300 <ts 1760°c<="" td=""><td>±2.2°C</td><td colspan="2">±2.2°C</td></ts>	±2.2°C	±2.2°C	
	В	400 TS 600°C	±3.5°C		
		600 <ts 1820°c<="" td=""><td>±2.5°C</td><td></td></ts>	±2.5°C		
	К	-200 TS -100°C	±1.5°C		
		-100 <ts 1370°c<="" td=""><td>±0.8°C</td><td></td></ts>	±0.8°C		
	E	-200 TS -100°C	±1.0°C		
		-100 <ts 800°c<="" td=""><td>±0.8°C</td><td colspan="2"></td></ts>	±0.8°C		
	Т	-200 TS -100°C	±1.5°C		
		-100 <ts 400°c<="" td=""><td>±0.6°C</td><td colspan="2">±0.6°C</td></ts>	±0.6°C	±0.6°C	
	J	-200 TS -100°C	±1.0°C		
		-100 <ts 100°c<="" td=""><td></td><td colspan="2">±0.8°C</td></ts>		±0.8°C	
		100 <ts 1100°c<="" td=""><td></td><td colspan="2">±0.6°C</td></ts>		±0.6°C	
	N	-200 TS<0°C	-	±2.2°C	
		0 TS 1300°C		±1.0°C	
	W	0 TS 2000°C ±1.8°C			
	Reference contact compensation ±0.3°C accuracy				
	Resistance temperature detector * 3-wire system				
	Туре	e Measurement	Applied current	Accuracy	
		Temperature Range			
	Pt10	0 -200 TS 100°C	1mA	±0.6°C	
		100 <ts 500°c<="" td=""><td>±0.8°C</td></ts>		±0.8°C	
		500 <ts 850°c<="" td=""><td>±1.0°C</td></ts>		±1.0°C	
	JPt10	0 -200 TS 100°C	1mA	±0.6°C	
		100 <ts 500°c<="" td=""><td>±0.8°C</td></ts>		±0.8°C	
	Pt100	-200 TS 100°C	0.3mA	±0.6°C	
		100 <ts 500°c<="" td=""><td></td><td>±0.8°C</td></ts>		±0.8°C	
Maximum input voltage	Between +/- terminals : 20mV to 2Vrange (60Vp-p) 5V to 100V range (110Vp-p)				
	Between input terminal/input terminal : 600Vp-p				
	Between input terminal/GND : 300Vp-p				
Withstand voltage	Between input terminal/input terminal : 1 minute at 600Vp-p				
	Between input terminal/GND : 2300 VACrms 1 minute				

Installation Guide

For the installation procedure of the GL840 application software (USB driver / GL100_240_840-APS), refer to the "Application Software Manual" included in the attached CD-ROM.

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