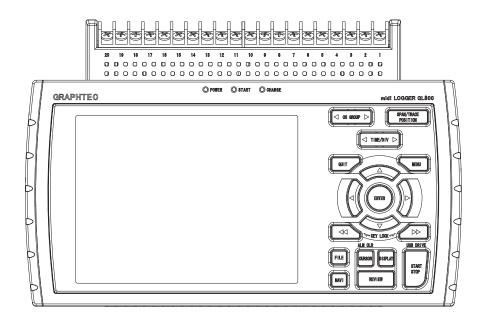
midi LOGGER GL800 Quick Start Guide

GL800-UM-851



Checking the Outer Casing

After unpacking, check the GL800's outer casing before use to make sure that there are no surface scratches or other flaws such as stains or dirt.

Checking the Accessories

□ Quick Start Guide : 1 □ CD-ROM :

□ AC cable/AC adapter :

Setting and Checking the AC Line Frequency

Set the AC line frequency in the "OTHR" menu.

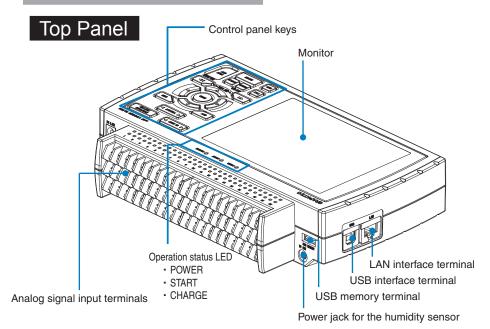
This setting (50 or 60 Hz) affects the device's noise elimination capability, elimination capability.

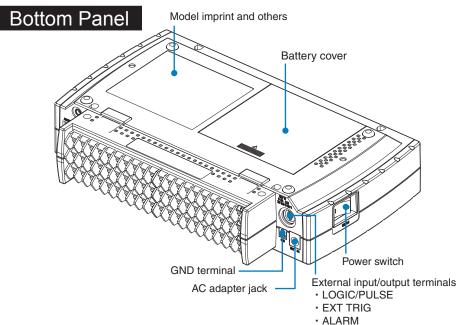
Don't forget to check the setting

GL800 Contents

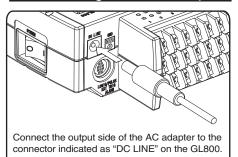
Part Names	2
Connection Procedures	3
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Descriptions of the Control Panel Keys	5
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GL800 Part Names

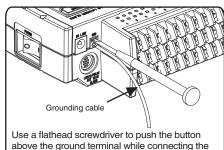




GL800 Connection Procedures

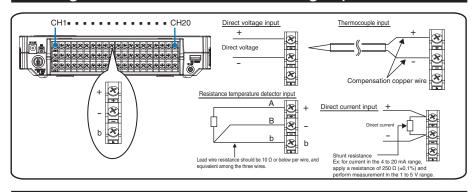


Connecting the AC Adapter Connecting the Grounding Cable

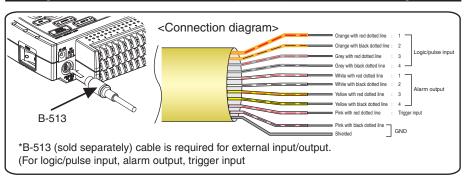


above the ground terminal while connecting the grounding cable to the GL800. Connect the other end of the cable to ground.

Making Connections to the Analog Input Terminals



Making Connections to the External Input/Output Terminals (Using B-513)



Precautions to Observe When Performing Measurement

Avoid electrical shock and short circuit accidents

- Do not apply voltage of AC33 Vrms or 60 VDC or above between the analog input section and main unit (GND terminal), or to between each analog channel.
- Do not apply voltage of AC33 Vrms or 60 VDC or above to analog input section (between + and - terminals).
- Do not apply radio-frequency signals.

Warming-up

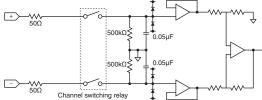
The GL800 should be allowed to warm up with the power turned on for approximately 30 minutes to achieve operation according to the specified performance.

Unused channels

Capacitors have been incorporated into the analog input circuit to increase the noise elimination capability.

Therefore, if input terminal is open, or signals are not input to the terminal, measured results may be influenced by signals from other channels. In such a case, set input setting to "Off" or short circuit the + and – terminals.

If signals are input correctly, measured results are not influenced by other channels.



Noise countermeasures

If measured values fluctuate due to extraneous noise, conduct the following countermeasures.

(Results may differ according to noise type.)

Ex 1: Connect the GL800's GND to ground.

Ex 2: Connect GL800's GND to measurement object's GND.

Ex 3: Operate GL800 with batteries (B-517).

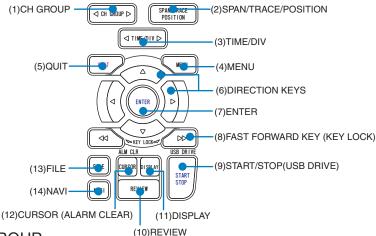
Ex 4: In the AMP settings menu, set filter to any setting other than "OFF".

Ex 5: Set the sampling interval which enables GL800's digital filter (see table below).

Number of Measuring Channels*	Sampling Interval which enables Digital Filter
10 channels or less	500 msec or above
11 to 20 channels	1 sec or above
21 to 50 channels	2 sec or above
51 to 100 channels	5 sec or above
101 to 200 channels	10 sec or above

^{*&}quot;Number of Measuring Channels" is the number of channels in which input settings are NOT set to "OFF".

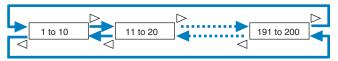
GL800 Descriptions of the Control Panel Keys



1 CH GROUP

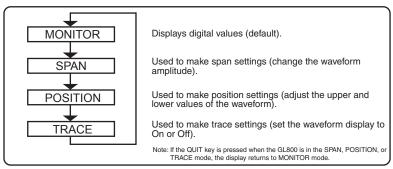
Press this key to switch to the next group consisting of 10 channels.

Press the \triangleleft side to switch to the group consisting of the next 10 channels with a smaller number. Press the \triangleright side to switch to the group consisting of the next 10 channels with a larger number.



2 SPAN/TRACE/POSITION

This key enables SPAN, POSITION, and TRACE settings to be made independently for each channel. Each time this key is pressed, the mode displayed in the waveform operation display area changes in the sequence shown below. Use the \triangle and ∇ keys to select the channel, and the \triangleleft and \triangleright keys to change the setting values.

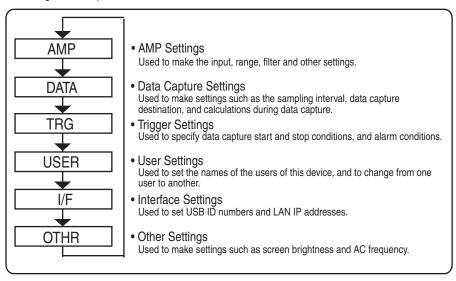


3 TIME/DIV

Press the TIME/DIV key to change the time axis display range on the waveform screen.

4 MENU

Press the MENU key to open a setup menu. Each time this key is pressed, the setup screen tabs change in the sequence shown below.



5 QUIT (LOCAL)

Press the QUIT key to cancel the settings and return them to their default status. If the device is in the Remote (Key Lock) status, namely the external operating status via the interface, press this key to return the device to the normal operating status (Local).

6 ∇△<|> keys (DIRECTION KEYS)

These keys are used to select menu setup items, to make span settings in the digital display area, to move the cursors during a data replay operation, and so forth.

7 ENTER

Press the ENTER key to enter the settings made in the setup menus, and to confirm your settings.

8 << ⊳ keys (KEY LOCK)

These keys are used to move the cursor at high speed during a data replay operation, and to change the operation mode in the file settings box. Hold down both keys simultaneously for at least two seconds to enable key lock status. To cancel key lock status, press 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.

9 START/STOP (USB DRIVE) key

Press the START/STOP key to perform a data capture start operation while the GL800 is in the Free Running status, and a data capture stop operation when data capture has ended. If this key is held down while the power to the GL800 is turned on, the GL800 goes into USB Drive Mode.

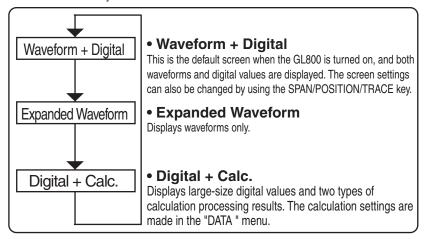
10 REVIEW key

Press the REVIEW key to perform a data capture start operation while the GL800 is in the Free Running status, and a data capture stop operation when data capture has ended. If this key is held down while the power to the GL800 is turned on, the GL800 goes into USB Drive Mode.

Note: A data replay operation will not be performed if data has not been captured.

11 DISPLAY key

Press the DISPLAY key



12 CURSOR (ALM CLR) key

Press the CURSOR key to switch between the A and B cursors during a data replay operation. If the Alarm setting has been specified as "Alarm Hold", press this key to clear the alarm. The alarm settings are made in the "TRIG" menu.

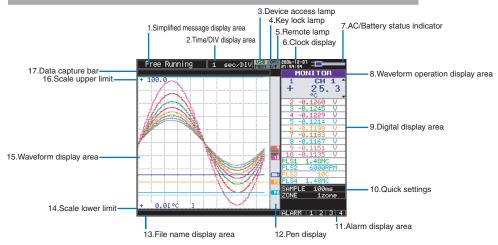
13 FILE key

Press the FILE key to save data to the GL800's internal memory and to a USB memory device.

14 NAVI key

Press the NAVI key to display operational descriptions during the Free Running status, and during data capture and data replay operations.

GL800 Descriptions of the Menu Screens

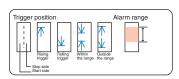


- 1. Simplified message display area
- 2.Time/DIV display area
- 3.Device access lamp
- 4.Key lock lamp
- 5.Remote lamp:
- 6.Clock display
- 7.AC/Battery status indicator
- : Displays the operating status.
- Displays the current time scale.
- Turns red when USB memory is accessed.
- When the GL800's internal memory is being accessed, the MEM lamp turns red.
- Displays the key lock status. (Yellow = keys locked, white = not locked)
- : Displays the remote status. (Yellow = Remote status, white = Local status)
- : Displays the current date and time.
- : Displays the following icons to indicate the operating status of the AC power supply and the battery.



- 8. Waveform operation display area
- 9. Digital display area
- 10.Quick settings
- 11.Alarm display area
- 12.Pen display

- : Displays the mode selected by the SPAN/POSITION/TRACE key.
 - : Displays the input values for each channel. The \triangle and ∇ keys can be used to select the active channel (enlarged display). Moreover, the selected active channel is displayed at the very top of the waveform display.
- : Displays items that can be easily set. The △ and ▽ keys can be used to make a Quick settings item active, and the ⊲ and ⊳ keys to change the values.
- : Displays the status of the alarm output terminal. (Red = alarm generated, white = alarm not generated)
- : Displays the signal positions, trigger positions, and alarm ranges for each channel.



- 13.File name display area:
- 14.Scale lower limit:
- 15. Waveform display area:
- 16.Scale upper limit:
- 17.Data capture bar

- : Displays the data capture file name during the data capture operation. During a data replay operation, the name of the data replay file is displayed.
- : Displays the lower limit of the scale of the currently active channel.
- : The input signal waveforms are displayed here.
- : Displays the upper limit of the scale of the currently active channel.
 - During a data capture operation, this bar displays the remaining memory capacity of the device used for data capture. When data is being replayed, the display position information is displayed here.

GL800 Measurement Procedure

In this section we will provide a simple explanation of the data capture procedure: Preparations → Setup → Data Capture → Data Replay.

T thermocouples will be used here to perform temperature measurement.

Purpose of data capture : To measure the temperature of the target objects

Measurement points : 2 locations
 Sampling interval : 1 second

 Date again destination : USP measured as it.

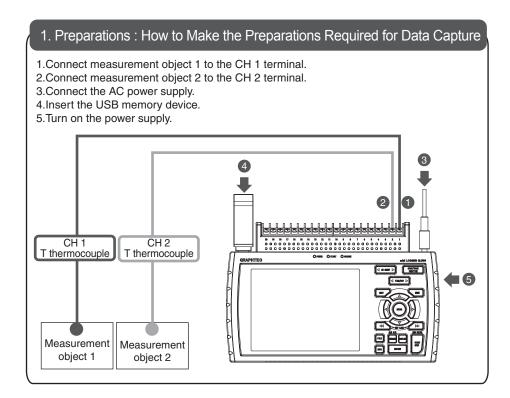
Data save destination : USB memory device

• Important point : We want to check captured data even during a data capture

operation.

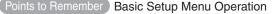
• Items that must be supplied : T thermocouples, USB memory device

Note: If you do not have a USB memory device, capture data to the GL800's internal memory instead.



2. Setup: How to Make the Settings for Temperature Measurement

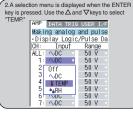
Make the settings required for data capture. Here we will make only those settings that are absolutely necessary. The other settings will be left as the default settings (the settings made prior to shipment from the factory)

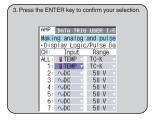


The keys used on the menu screens are the $\nabla\!\!\!\!\!\!\triangle d$ keys, the ENTER key, and the QUIT key. The current cursor position is displayed in blue. Use the $\nabla\!\!\!\!\!\!\!\!\!\!\!\!\! \triangle d$ keys to move the cursor. If you press the ENTER key at the cursor position, a selection menu or a box for inputting numeric values and so forth is displayed. If you press the QUIT key, the screen closes and the ettings are canceled.

Examples of selection menu operations (AMP screen)







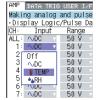
Note: For voltage measurement, select "DC".



1. Press the MENU key to display the setup menu screen.

- 2. Select "TEMP." for the Input parameter for CH 1 and CH 2.
 - (a) Move the cursor to the input parameter opposite CH 1 and select "TEMP."
 - (b) Make the same setting for CH 2.





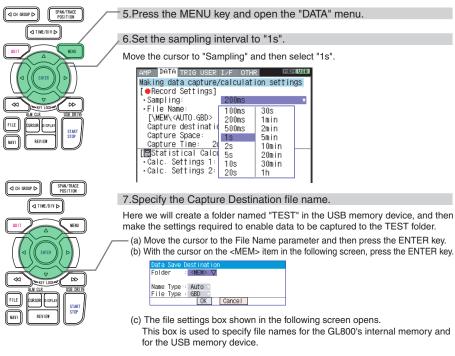
AMP	DATA T	RIG	USER	l I	∕F
Makir	ng ana l	og :	and p	ul	se
• Dis	olay Lo	gic,	/Puls	se.	Da
CH:	Inpu				
ALL:	▼ TEMF) V	TC-k		V
1:	■ TEMP	` ▼	TC-k	(v
2:	∿DC	¥		٧	v
3:	∿DC	¥		٧	V
4:	∿DC	v	50	٧	V
5:	∿DC	v	50	٧	N.
6:	∿DC	V	50	٧	V
7:	∿DC	¥	50	٧	v

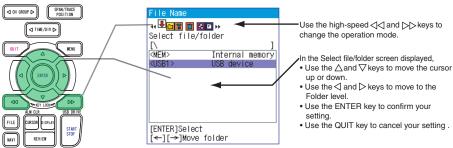


- 3. Select "TC-T" for the Range parameter for CH 1 and CH 2.
 - (a) Move the cursor to the Range parameter opposite CH 1 and select "TC-T".
 - (b) Make the same setting for CH2.

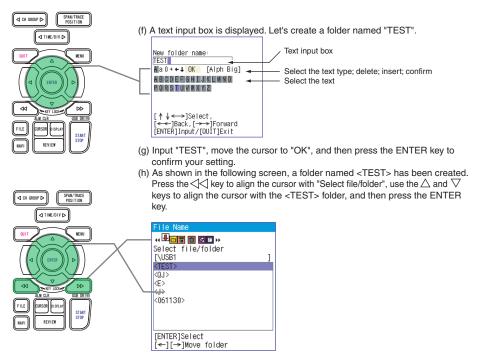
AMP	DATA TRI	G USER I/	OTHR	MEN	USB			
Maki	Making analog and pulse/logic settings							
• Dis	·Display Logic/Pulse Data: ▷							
CH:	Input	Range	Filter	EU Mi	SC.			
ALL:	N TEMP □	TC-K	Off		∇			
1:	N TEMP □	TC-K	Off	Off	∇			
2:	∿DC	TC-K	TC-W	Dff∇	∇			
3:	NDC	TC-J	Pt100	Dff∇	∇			
4:	∿DC	TC-T	JPt100	Dff∇	∇			
5:	∿DC	TC-R	PT1000	Dff⊽	∇			
6:	∿DC	TC-E		Dff∇	∇			
7:	∿DC -	TC-B		Dff⊽	∇			
8:	∿DC	TC-S		Dff∇	∇			
9:	^DC =	TC-N		Dff⊽	∇			
10:	∿DC	20 V	UII	Off∇	∇			

- 4. Select "Off" for all the other channels.
 - (a) Using the procedure described above, select "Off" for CH 3 to CH 10.
 - (b) Use the CH GROUP key to switch to the CH11 to CH20 group.

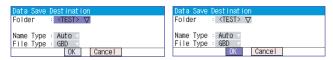




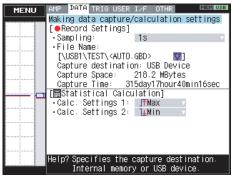
- (d) Move the cursor to <USB1> and then press the ⊳key.
- (e) Press the ▷▷ key to move the cursor to "Create new folder" and then press the ENTER key.



(i) Check that "<TEST>" appears opposite "Folder", move the cursor to the OK button, and then press the ENTER key.



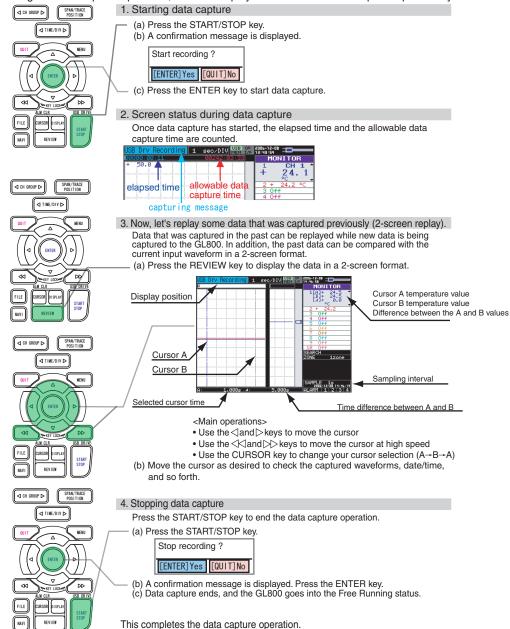
(j) In the screen displayed below, we can check the capture destination, the amount of data that can be captured, and the allowable data capture time.



This completes all the settings required for data capture.

3. Data Capture: How to Measure the Temperature

Now that all the data capture settings have been made, we will start actual data capture. During the data capture operation, let's also replay some data that was captured previously.



4. Data Replay: How to Replay Captured Data

Now that data capture has been completed, let's replay some of that captured data. The data has been captured to the <TEST> folder that was created in the USB memory device in Step 7 of Section 2, "Setup". The file name is appended automatically, and therefore the name of the file that was created is "Year/month/date-time_UG.gbd". The year/month/date and time are those that were in effect when data capture started.



- 1. Selecting a file to replay
 - (a) Press the REVIEW key.
 - (b) Since the file you want to replay has the file name that was appended automatically when the data was captured, move the cursor to the OK button and then press the ENTER key.



(c) The Replay screen opens.

See Step 3 of Section 3, "Data Capture".



- (d) Move the cursor as desired to check the captured waveforms, date/time, and so forth. The SPAN/POSITION/TRACE key can also be used in the Replay screen to change the span, position trace, zone and other displayed settings.
- (e) Press the QUIT key to end the data replay operation. A confirmation message is displayed. Press the ENTER key.



(f) Data replay ends, and the GL800 goes into the Free Running status.

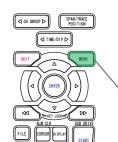
This completes our simple explanation of how to use the basic GL800 functions. The GL800 has many other convenient functions. Please see the next five pages for further details.

GL800 Convenient Functions

The GL800 is provided with various functions that enable it to be used more effectively. We have selected three of those functions to describe in further detail.



Trigger functions can be used to control the timing of the start of a data capture operation, and the timing of the end of a data capture operation.



REVIEW

NAVI

Points to Remember

For example...
You can use trigger functions to perform operations such as the following:

• Start data capture when the voltage exceeds 1 V

- Start data capture when the voltage exceeds 1 V
 Stop data capture at 1:00 pm
- Perform control via external input

Here we will specify the condition as "Start data capture when the CH 1 temperature exceeds 20°C ".

(1) Press the MENU key and open the "TRIG" menu.



SAMPRIZE
POSTION

GIVE POSTION

GIVE POSTION

GIVE

GI

(2) Move the cursor to "Start Source" and select "Level".

-Start Source:

-Stop Source:

-Repeat:

[AAlarm Settings]
-Alarm Level:

Performing Trigger and Alarm settings

(3) Align the cursor with "Level" and then press the ENTER key to open the "Trigger Level Settings" screen.



REVIEW

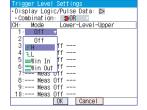
NAVI

☐ CH GROUP ▷

SPAN/TRACE POSITION

START

(4) Move the cursor to the "Mode" parameter opposite CH 1, and then select " H".

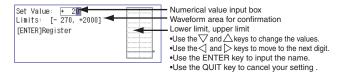




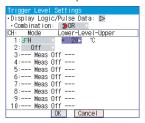
(5) Move the cursor to the "Level" parameter next to the "Mode"

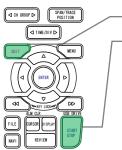
(6) The input box shown in the following screen is displayed. Select "20". Use the

| and | keys to move to the cursor to the second digit from the right, and the
| and | keys to change the value. Press the ENTER key.



(7) When the screen changes to the following screen, move the cursor to the OK button and then press the ENTER key.





-(8) The screen returns to the TRIG menu screen. Press the QUIT key to return the GL800 to the Free Running status.

(9) Now let's press the START/STOP key to start data capture. If the trigger condition has not been satisfied, the GL800 goes into the "Armed" status as shown on the following screen.



When the trigger condition has been satisfied, data capture starts.



Span, Position and Trace Functions to Adjust the Waveform Display

These functions enable you to make adjustments in order to view individual channels more easily, and to delete waveforms that you do not need to view.



The span, position and trace operations can be performed while the GL800 is in the Free Running status, while it capturing data, and while it is replaying data. The changes made are applied to the displayed data only, and so the original data is not affected in any way.

1. How to Make a Span setting.

The Span parameter is used to adjust the amplitude of the input waveform. This setting is made in the aforementioned Free Running status.

- (a) Adjust the span display width for CH 1 to 100°C.
- (b) Press the SPAN/POSITION/TRACE key to select the SPAN mode.



The currently selected mode (SPAN, POSITION or TRACE) can be checked by looking at the "Waveform Operation Display Area".

- (c) Use the ∇ and \triangle keys to make CH 1 active (enlarged display).
- (d) Use the

 and

 keys to change the Span value. Here we will set the value to 100°C. When this setting has been made, the waveform screen scale will be set to "+100.0 to +0.0".



2. How to make a Position setting.

The Position parameter is used to adjust the zero position's upper and lower positions for the input waveform.

- (a) Press the SPAN/POSITION/TRACE key to select the POSITION mode.
- (b) Use the ∇and △ keys to make CH 1 active (enlarged display).
 (c) Use the ⟨and ▷ keys to set the Position value to "+80°C to -20°C".

When this setting has been made, the waveform screen scale will be set to "+80°C to -20°C



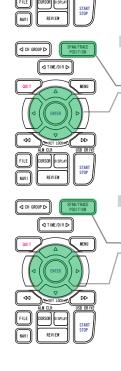
3. How to make a Trace setting.

The Trace parameter can be used to specify the waveform display of selected channels as On or Off.

- (a) Press the SPAN/POSITION/TRACE key to select the TRACE mode.
- (b) Use the ∇and ∆keys to make CH 2 active (enlarged display). (c) Use the ≺and ⊳keys to select Off.

When this setting has been made, the CH 2 waveform is not displayed.





☐ CH GROUP ▷

44

FILE

NAVI

□ CH GROUP ▷

▽

KEY LOCK

REVIEW

MENU

DD

DD

GL800 Specifications

Standard Specifications

Number of analog terminal units 1 unit (20 channels) or extension unit (maximum 200 channels)	Item			Descripti	on	
Ethernet (10BASE-T/100BASE-TX), USB (HighSpeed supported) provided as standard features	Number of analog terminal units	1 unit (20 chanr	nels) or extension unit	(maximum 2	00 channels)
Built-in memory device Internal memory: Approx.12MB USB memory slot (FullSpeed supported) is provided as a standard feature 100ms/10CH MAX 100 · 200 · 500ms · 1 · 2 · 5 · 10 · 20 · 30sec 1 · 2 · 5 · 10 · 20 · 30min · 1hour Setup parameters: EEPROM/Clock: Lithium secondary battery ±0.002% (approx. 50 seconds per month) ±0.002% (approx. 50 seconds per month) Power supply Ac adapter : 100 to 240 VAC, 50 to 60 Hz DC input : 8.5 to 24 VDC Battery pack (option) : 7.2 VDC (2200 mAh), 2 packs mountable Power consumption Power consumption *AC power consumption (when using the AC adapter provided as a standard accessory) No Condition Normal During battery recharge 1 When the LCD is on 16VA 28VA 2 When the screensaver is operating 11VA 22VA *DC current consumption No Condition Normal During battery recharge 1 When the LCD is on 0.3A 0.7A 2 When the LCD is on 0.3A 0.7A When the LCD is on 0.3A Recharging not possible 4 +24V When the LCD is on 0.8A Recharging not possible *Normal status is when LCD brightness is set to MAX. External dimensions 232×152×50mm Weight*1	External input and output functions	Trigger	input, Lo	gic input, Pulse input,	Alarm outpu	ıt
USB memory slot (FullSpeed supported) is provided as a standard feature Sampling interval 100ms/10CH MAX 100 · 200 · 500ms · 1 · 2 · 5 · 10 · 20 · 30sec 1 · 2 · 5 · 10 · 20 · 30min · 1hour Back-up functions Clock accuracy (ambient temperature 23°C) Operating environment Power supply AC adapter DC input Battery pack (option) - AC power consumption No Condition Normal When the LCD is on 16VA 28VA 2 When the screensaver is operating 1 When the LCD is on 1 - 20VA 2 When the LCD is on 1 - 20VA 3 + 12V When the LCD is on 1 - 20VA 4 + 12V When the LCD is on 1 - 20VA 5 + 8.5V When the LCD is on 1 - 20VA 2 When the screensaver is operating 2 - 20VA 3 - 20VA 4 - 20VA	PC interface	Ethernet	(10BASE-T/1	00BASE-TX), USB (HighSpeed	supported) provid	ded as standard features
Sampling interval 100ms/10CH MAX 100 · 200 · 500ms · 1 · 2 · 5 · 10 · 20 · 30sec 1 · 2 · 5 · 10 · 20 · 30min · 1hour Back-up functions Setup parameters: EEPROM/Clock: Lithium secondary battery ±0.002% (approx. 50 seconds per month) Operating environment O to 45°C, 5 to 85% RH(15 to 40°C when using batteries) AC adapter DC input S.5 to 24 VDC Battery pack (option) - AC power consumption (when using the AC adapter provided as a standard accessory) No Condition Normal During battery recharge 1 When the LCD is on 16VA 28VA 2 When the screensaver is operating 11VA 22VA - DC current consumption No Condition Normal During battery recharge 1 When the LCD is on 0.3A 0.7A When the LCD is on 0.55A When the LCD is on 0.55A A +12V When the LCD is on 0.8A Fecharging not possible +8.5V When the LCD is on 0.8A Fecharging not possible *Normal status is when LCD brightness is set to MAX. External dimensions 232×152×50mm Weight*1 990g	Built-in memory device	Internal	memory:	Approx.12MB		
100 · 200 · 500ms · 1 · 2 · 5 · 10 · 20 · 30sec 1 · 2 · 5 · 10 · 20 · 30min · 1hour Back-up functions Setup parameters: EEPROM/Clock: Lithium secondary battery ±0.002% (approx. 50 seconds per month)		USB m	emory slot	(FullSpeed supported) is	s provided as a	a standard feature
1 · 2 · 5 · 10 · 20 · 30min · 1hour	Sampling interval					
Back-up functions Clock accuracy (ambient temperature 23°C) Operating environment Power supply AC adapter DC input Battery pack (option) **Ocondition Normal **Occurrent consumption No Condition Normal **Occurrent consumption Normal Suttery recharge 1					0 • 30sec	
Clock accuracy (ambient temperature 23°C) Derating environment Power supply AC adapter : 100 to 240 VAC, 50 to 60 Hz DC input : 8.5 to 24 VDC Battery pack (option) : 7.2 VDC (2200 mAh), 2 packs mountable Power consumption • AC power consumption (when using the AC adapter provided as a standard accessory) No	Darlana forations				101. t	-l l tt
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DC input	Operating environment	0 to 45	°C, 5 to 8	35% RH(15 to 40°C wl	nen using ba	tteries)
Battery pack (option) : 7.2 VDC (2200 mAh), 2 packs mountable Power consumption *AC power consumption (when using the AC adapter provided as a standard accessory) No Condition Normal During battery recharge 1 When the LCD is on 16VA 28VA 2 When the screensaver is operating 11VA 22VA *DC current consumption No Condition Normal During battery recharge 1 H24V 2 When the LCD is on 0.3A 0.7A When the LCD is on 0.3A 0.6A 3 H12V When the LCD is on 0.55A When the screensaver is operating 0.3A *When the LCD is on 0.8A 5 H8.5V When the LCD is on 0.8A *When the LCD is on 0.8A *When the LCD is on 0.8A *Normal status is when LCD brightness is set to MAX. External dimensions 232×152×50mm Weight¹¹ 990g	Power supply	l			,) Hz
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No Condition Normal During battery recharge			<u> </u>	, ,	,. ,	
1	Power consumption		er consump	,		1
2 When the screensaver is operating 11VA 22VA • DC current consumption Normal During battery recharge			144			, , ,
DC current consumption No Condition Normal 1		ļ				
No				1 0	11VA	22VA
1			urrent cor			1
2						, , , , , , , , , , , , , , , , , , ,
3		1	+24V			0.7A
# 12V When the screensaver is operating 0.3A Recharging not possible 5					0.2A	0.6A
When the screensaver is operating		3	±12V	When the LCD is on	0.55A	Recharging not possible
6 **Normal status is when LCD brightness is set to MAX. External dimensions 232×152×50mm Weight ¹¹ 990g		4	1124	When the screensaver is operating	0.3A	Ticonarying not possible
6 When the screensaver is operating 0.45A *Normal status is when LCD brightness is set to MAX. External dimensions 232×152×50mm 990g		5	⊥8 5\/	When the LCD is on	0.8A	Recharging not nossible
External dimensions 232×152×50mm Weight ⁺¹ 990g		6	+0.5 V	When the screensaver is operating	0.45A	Trecharging not possible
Weight ⁺¹ 990g		*Normal status is when LCD brightness is set to MAX.				
	External dimensions	232×152×50mm				
Vibration tested conditions Facility clouds to purpose hills make Time 4 Code and 2 A - 1 10 - 10 - 10	Weight*1	990g				
Vibration-tested conditions Equivalent to automobile parts Type 1 Category A classification *1: Excluding the AC adapter and battery. Including one terminal unit.	Vibration-tested conditions	Equiva	lent to au	tomobile parts Type 1	Category A	classification

External Input/Output Functions

	•	
Item		Description
Input specifications	Maximum input voltage	: 0 to +24 V (single-ended ground input)
(pulse/logic, trigger)	Input threshold voltage	: approx. +2.5 V
	Hysteresis	: approx. 0.5 V (+2.5 V to +3 V)
Alarm output specifications	Output format	: Open collector output (5 V, 10 K Ω pull-up resistance) : Contact capacity 5 V to 24 V, 100 mA or below

Input Unit Specifications

Item	Description				
Number of input channels	M3 screw type, 2	20 channels (maximum 20	00 channels with	extension unit)	
Method	Photo MOS rela	y scanning system, all ch	annels isolated,	balanced input	
Measurement Voltage	20 • 50 • 100 •	200 · 500mV、1 · 2 ·	5 • 10 • 20 • 5	0、1-5VF.S.	
ranges Temperature	Resistance tempe	rature detector : K, J, E	, T, R, S, B, N	I、W(WRe5-26)	
	Humidity	: Pt100、	JPt100、Pt10	000(IEC751)	
Thermocouples		ge 0 V to 1 V scaling conv			
Measurement Voltage		S.	,	· · · /	
accuracy*1 Temperature	•Thermocouple)			
(23°C±3°C)	Type	Measurement Temperature Range	Measureme	ent Accuracy	
,	31	0≦TS≦100	±5.2°C	<u> </u>	
· When 30 minutes or		100 <ts≦300< td=""><td>±3.0°C</td><td></td></ts≦300<>	±3.0°C		
more have elapsed after	R/S	R : 300 <ts≦1600< td=""><td>± (0.05% of r</td><td>da +2.0°C)</td></ts≦1600<>	± (0.05% of r	da +2.0°C)	
power was switched on		S:300 <ts≦1760< td=""><td>± (0.05% of r</td><td></td></ts≦1760<>	± (0.05% of r		
· Sampling 1 s/20 ch		400≦TS≦600	±3.5°C	-9,	
· Filter ON (10)	В	600 <ts≦1820< td=""><td>± (0.05% of r</td><td>da +2.0°C)</td></ts≦1820<>	± (0.05% of r	da +2.0°C)	
· GND connected		-200≦TS≦-100	± (0.05% of r		
	K	-100 <ts≦1370< td=""><td>± (0.05% of r</td><td> 7</td></ts≦1370<>	± (0.05% of r	7	
		-200≦TS≦-100	± (0.05% of r		
	E	-100 <ts≦800< td=""><td>± (0.05% of r</td><td></td></ts≦800<>	± (0.05% of r		
		-200≦TS≦-100	± (0.1% of rdg +1.5°C)		
	T			± (0.1% of rdg +0.5°C)	
		-200≦TS≦-100	±2.7°C		
	J	-100 <ts≦100< td=""><td colspan="2">±1.7°C</td></ts≦100<>	±1.7°C		
		100 <ts≦1100< td=""><td colspan="2">± (0.05% of rdg +1.0°C)</td></ts≦1100<>	± (0.05% of rdg +1.0°C)		
	N	0≦TS≦1300	± (0.1% of rd		
	W	0≦TS≦2315	± (0.1% of rd		
	Reference co	ntact compensation accuracy	±0.5°C		
	*1: Thermocouple	e diameters Τ: 0.32 Φ, others: 0.65	ϕ		
	•Resistance te	mperature detector			
	Туре	Measurement Temperature Range	Applied current	Accuracy	
	Pt100	-200∼850°C	1mA	±1.0°C	
	JPt100	-200∼500°C	1mA	±0.8°C	
	Pt1000 -200~500°C 0.2mA ±0.8°C				
A/D converter	16Bit (out of which 14 bits are internally acknowledged)				
Temperature coefficient	Gain : 0.01% of F.S./ °C				
Input resistance	1MΩ±5%				
Allowable signal source resistance	Within 300 Ω				
Maximum input voltage	Between +/- terminals, each channels, CH-GND : 60 Vp-p				
Withstand voltage	Between each input channels, and CH-GND : 1 minute at 350 Vp-p				
Insulation resistance	CH-GND: At least 50M Ω (at 500 VDC)				
Common mode rejection ratio	At least 90 dB (50/60 Hz; signal source 300 Ω or less)				
Noise	At least 48 dB (with +/- terminals shorted)				

GL800 Installation Guide

This section explains how to install the environment settings tool and GL800 application software.

<System Requirements>

This software can be installed on a PC which fulfills the following conditions.

OS : Windows 2000, XP

CPU : Pentium4, 1.7 GHz or higher

Memory : 256 MB or more (512 MB recommended)

HDD : 100 MB (1 GB recommended) additional space required for

installing the application software

Display : Resolution 1024 x 768 or higher, 65535 colors or above (16 Bit or

higher)

Others : CD-ROM drive (for installing from CD), USB port required

<To Install the USB Driver>

To install the USB driver, follow the directions below.

- (1) Insert the accompanying midi LOGGER GL800 CD-ROM in the PC's CD drive.
- (2) Connecting the PC and GL800.

Connect the PC and GL800 via a USB cable and power on the GL800.

(3) Installing the USB driver

The "Found New Hardware" message appears, followed by the Install New Hardware wizard for the environment settings tool.

Follow the directions displayed by the installer.

Choose "USB Driver" for driver selection.

The driver is located in the "USB Driver".

<To Install the USB Driver>

To install the application software which sets and controls the GL800, follow the directions below.

- (1) Insert the accompanying midi LOGGER GL800 CD-ROM in the PC's CD drive.
- (2) Select [Start] ? [Run] to open the [Run] window.
- (3) In the [Open:] field, type in "D:\Japanese\midi LOGGER Software\SETUP.EXE" and press [OK]. The installer starts. ("D:" represents the CD-ROM drive. Change this letter to the drive letter representing your CD-ROM drive, if necessary.)
- (4) Follow all directions displayed by the installer to continue.

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•Specifications are subject to change without notice.

GL800 Quick Start Guide (GL800-UM-851)

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GRAPHTEC CORPORATION