

midi LOGGER GL260

Quick Start Guide

GL260-UM-802-7L



GRAPHTEC

Introduction

Thank you for choosing Graphtec midi LOGGER GL260.
The Quick Start Guide is to assist with the basic operations.
Please refer to the USER'S MANUAL (PDF) for more details.

Check the exterior condition

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
- AC cable/AC adapter: 1

Files stored in the internal memory

- GL260 User's Manual
- GL28-APS (Windows OS software)
- GL-Connection (Waveform viewer and Control software)

* When the internal memory is initialized, the stored files are deleted. If you have deleted the User's Manual and the supplied software from the internal memory, please download them from our website.

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About the User's Manual and Accompanying Software

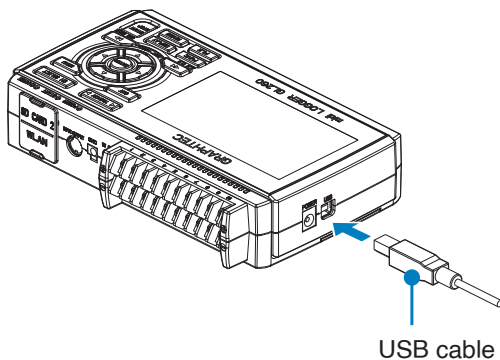
The user's manual and accompanying software are stored in the instrument's internal memory. Please copy it from the internal memory to your computer. To copy, see the next section. When you initialize the internal memory, the stored files are also deleted.

Deleting the stored files will not affect the operation of the instrument, but we recommend that you copy the files to your computer beforehand.

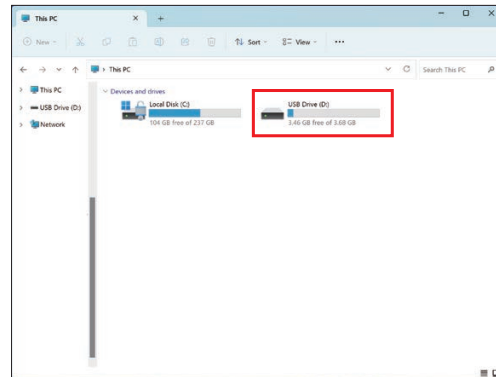
If you have deleted the user's manual and attached software from the internal memory, please download them from our website.

How to copy the stored files in USB DRIVE mode

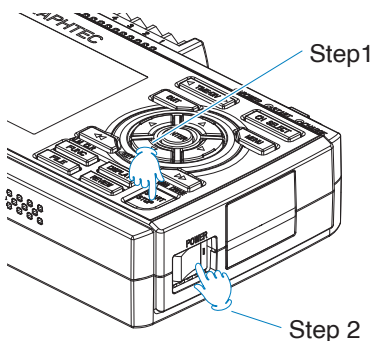
1. Connect the AC adapter cable to the GL260 while powering off, and then connect the PC and the GL260 with the USB cable.



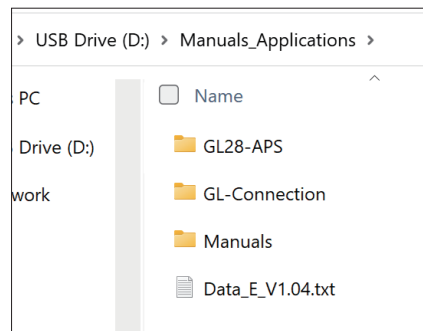
3. The GL260's internal memory is recognized by the PC and can be accessed.



2. While holding down the START/STOP button, turn on the GL260's power switch.

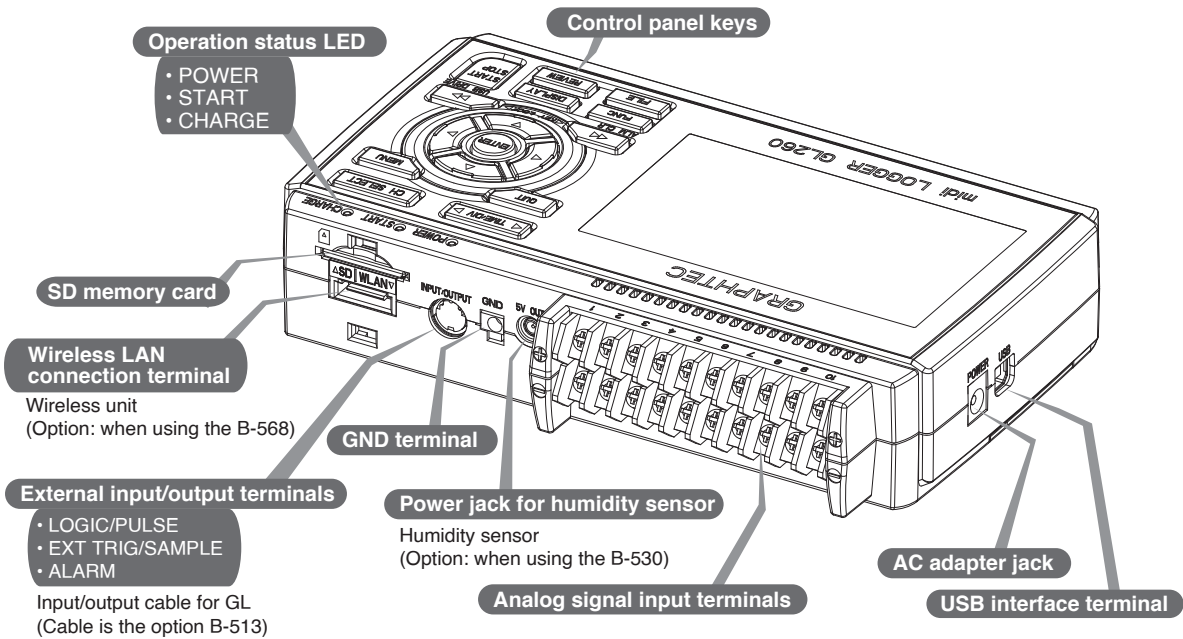


4. Copy the following folders and files to your computer.

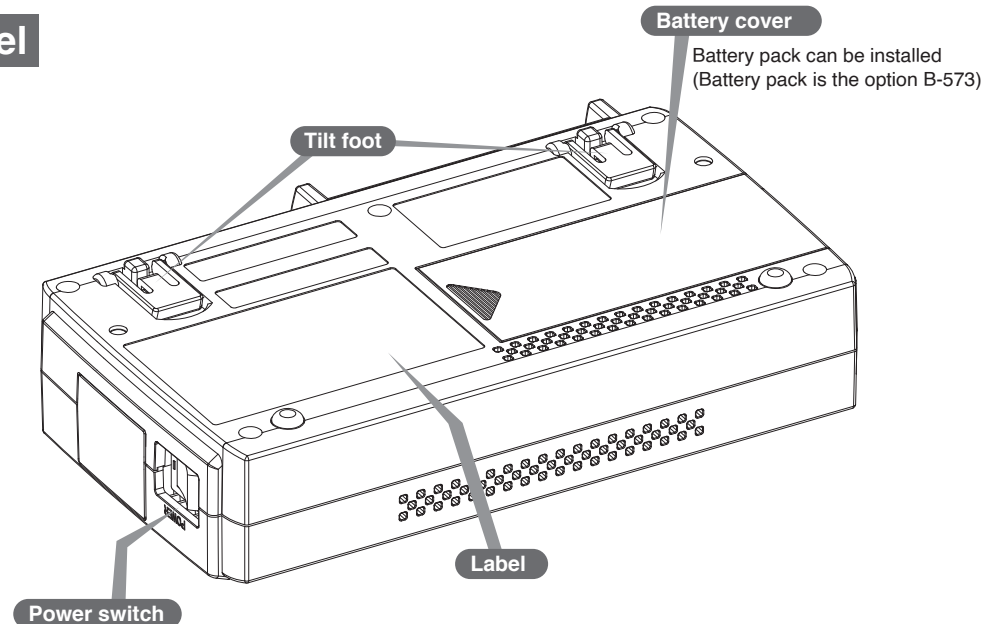


Name of parts

Top Panel



Bottom Panel



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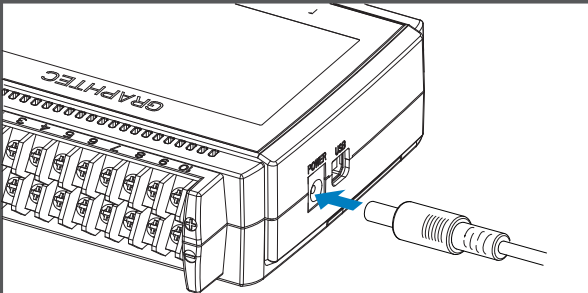
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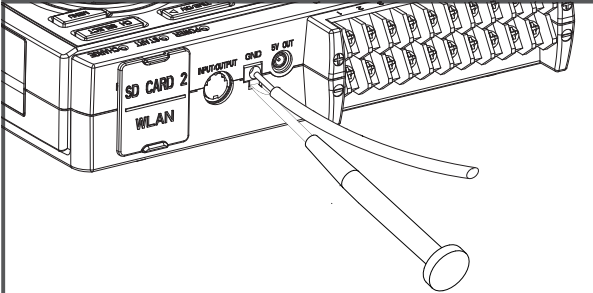
Connection Methods

Connecting the AC Adapter



Connect the DC output of the AC adapter to the connector indicated as "DC LINE" on the GL260.

Connecting the Grounding Cable



Use a flathead screwdriver to push the button above the GND terminal while connecting the grounding cable to the GL260. Connect the other end of the cable to ground.

Connecting the Analog Input Terminals

CH 1 2 3 4 5 6 7 8 9 10

Voltage input

+

DC voltage input

-

Current input

+

-

Shunt resistor
Ex: Current signal is converted to voltage using the shunt resistor.
For 4 to 20mA current to convert the signal to 1 to 5V.
Note: Graphtec offers B-551 250 ohm precision shunt resistor.

Thermocouple input

+

-

Compensation cable

CAUTION: Connect to any terminal according to the picture above.

Connecting the External Input/Output Terminals

< Connection Diagram >

Orange with red dotted line	: 1	Logic/pulse input
Orange with black dotted line	: 2	
Grey with red dotted line	: 3	
Grey with black dotted line	: 4	
White with red dotted line	: 1	Alarm output
White with black dotted line	: 2	
Yellow with red dotted line	: 3	
Yellow with black dotted line	: 4	
Pink with red dotted line	: Trigger input/ external sampling input	
Pink with black dotted line	: GND	
Shielded		

* Requires B-513 pulse/logic cable.
(For logic/pulse input, alarm output, trigger input, external sampling pulse input)

Internal memory

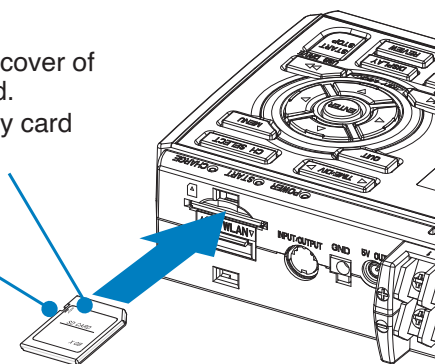
- The internal memory is not removable.

Mounting SD Card

< How to mount >

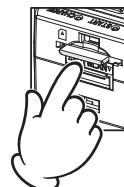
- (1) Open the protective cover of the SD memory card.
- (2) Push the SD memory card until it is locked.

* SD memory card must be unlocked.



< How to remove >

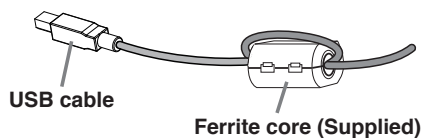
- (1) The SD memory card is released by pushing gently on the card. Then, pull to remove the card.



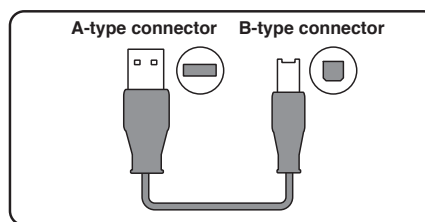
CAUTION: To remove a SD memory card, push in gently to release the card before pulling.
When the optional wireless LAN unit is installed, the SD memory card cannot be mounted.
The POWER LED blinks while accessing the SD memory card.

Connect with PC

To connect a PC using a USB cable, attach the supplied ferrite core to the USB cable as shown.



To connect GL260 and PC, use a cable with A-type and B-type connectors.



GL260 midi LOGGER complies with the EMC Directive when the supplied ferrite core is attached to a USB cable.

Safety Guide for using GL260

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Maximum input voltage

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

< Between +/- terminals(A) >

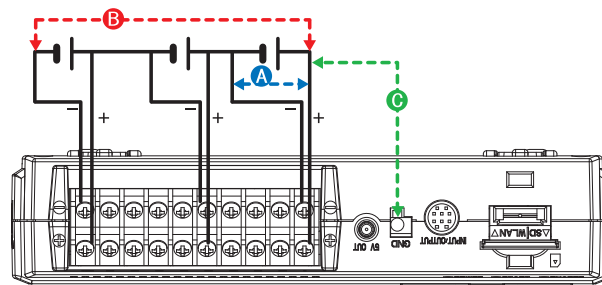
- Maximum input voltage: 60Vp-p (Range of 20mV to 1V)
110Vp-p (Range of 2V to 100V)

< 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



Warm-up

GL260 requires approximately 30 minutes warm-up time to deliver the optimum performance.

Unused channels

For unused CHs, turn off the input setting or short-circuit the +/- terminals. If an unused analog input section is open, it may appear that signals are being generated on other CHs.

Noise countermeasures

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

Ex 1 : Connect the GL260's GND input to ground.

Ex 2 : Connect GL260's GND input to measurement object's GND.

Ex 3 : Operate GL260 with batteries (Option: B-573).

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

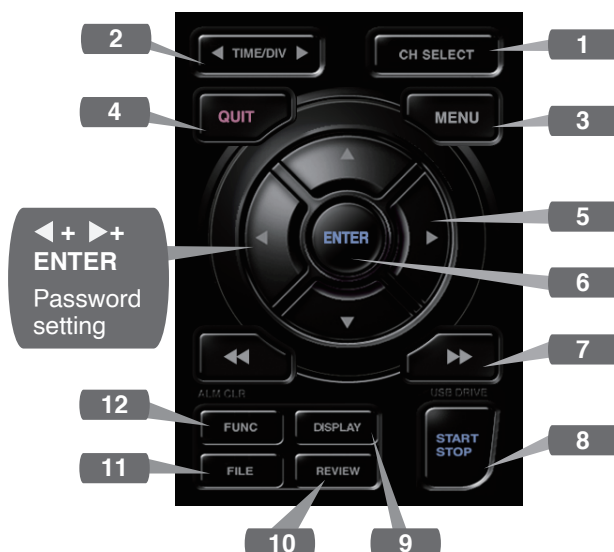
Ex 5 : Set the sampling interval which enables GL260's digital filter (see table below).

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 Channel or less	20 msec or slower *2	125 msec or slower
5 Channel or less	50 msec or slower *2	250 msec or slower
10 Channel or less	100 msec or slower	500 msec or slower

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

*2 Temperature cannot be set when the active sampling interval is set to 10 ms, 20 ms or 50 ms.

About the Control Panel Keys



1. CH SELECT

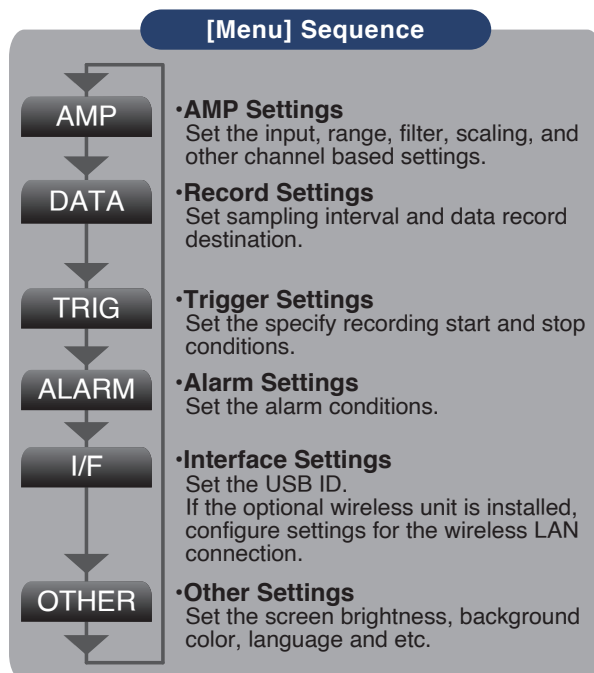
Switches between analog, logic pulse, and calculation display channels.

2. TIME/DIV

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

3. MENU

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



4. QUIT (LOCAL)

Push the [QUIT] key to cancel the settings and return to the default status.

If GL260 is in a Remote (Key Lock) status and is run by a computer via a USB or WLAN interface, push the key to return to a normal operating status. (Local).

5. Keys (DIRECTION KEYS)

Direction keys are used to select menu setup items, to move the cursors during a data replay operation.

6. ENTER

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

7. Keys (KEY LOCK)

Fast forward and rewind keys are used to move the cursor at high speed during replay or change the operation mode in the file box. Hold down both keys simultaneously for at least two seconds to lock the key buttons. (Orange key at the top right of window indicates locked status).

To cancel key lock status, push both key again for at least two seconds.

* Pushing these keys simultaneously with the ◀ key + ENTER + ▶ key enables password protection for the key lock operation.

8. START/STOP (USB DRIVE MODE)

Push the [START/STOP] key to initiate start and stop of a recording when GL260 is in the Free Running mode.

If the key is pushed while turning the power to the GL260 on, the unit will switch from the USB connection to USB DRIVE mode.

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

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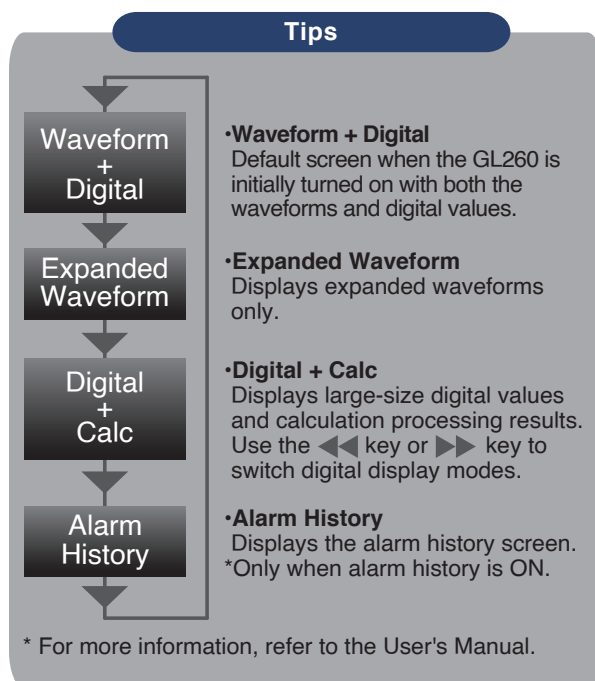
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9. DISPLAY

Push the [DISPLAY] key to switch the display.



10. REVIEW

Push the [REVIEW] key to replay recorded data.

If the GL260 is in the Free Running mode, data files that have already been recorded will be displayed.

If the GL260 is still recording data, the data is replayed in a 2-screen format.

Press the [REVIEW] button to switch between the recorded data and real time data.

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

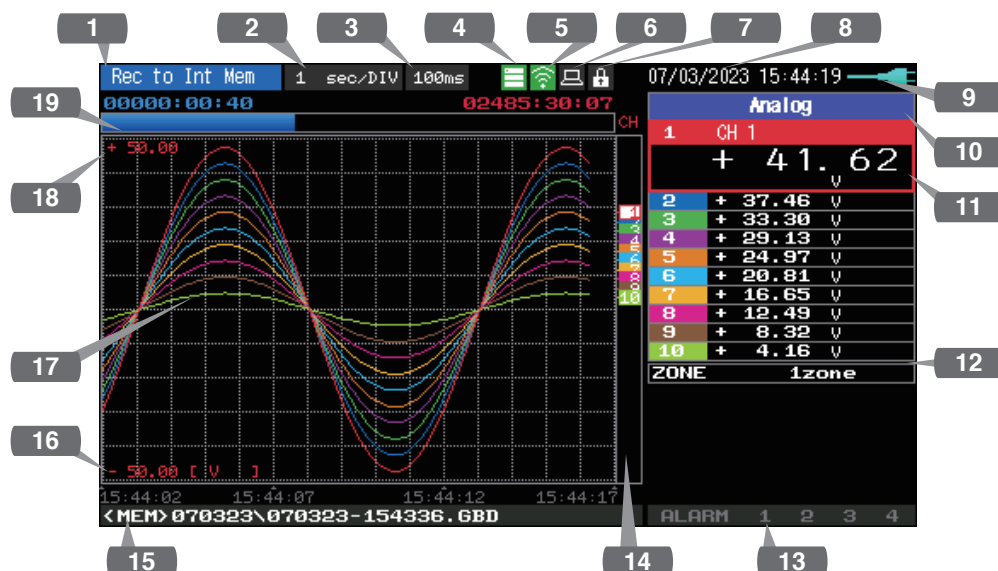
11. FILE

This is used to operate the internal memory and SD memory card, or for file operation, screen copy and save/load current settings.

12. FUNC

[FUNC] key allows you to perform frequently used functions every time.

About the Menu Screens



1. Status message display area : Displays the operating status.

2. Time/DIV display area : Displays the current time scale.

3. Sampling interval display : Displays the current sampling interval.

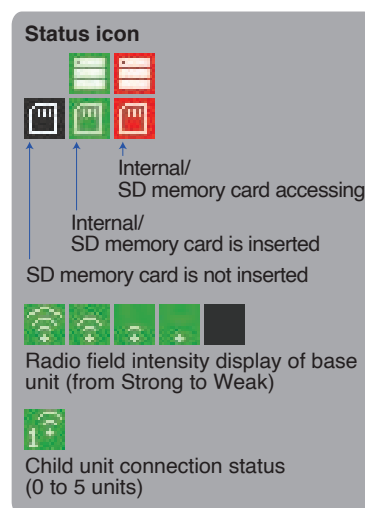
4. Device access display (Internal memory) : Displayed in red when accessing the internal memory.

5. Device access display (SD memory card / wireless LAN display) : Displayed in red when accessing the SD memory card. When the SD memory card is inserted, it is displayed in green.
(In station mode, the signal strength of the connected base unit is displayed. Also, in access point mode, the number of connected handsets is displayed. It turns orange when the wireless unit is operating.)

6. Remote lamp : Displays the remote status. (orange = Remote status, white = Local status)

7. Key lock lamp : Displays the key lock status. (orange = keys locked, white = not locked)

8. Clock display : Displays the current date and time.



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9.AC/Battery status indicator

: Displays the following icons to indicate the operating status of the AC power and the battery.

Note: Use this indicator as a guideline because remaining battery power is an estimate. This indicator does not guarantee the operating time with battery.

AC/Battery Indicator

When the AC power supply is being used



Battery power: 100 - 91%



Battery power: 90 - 71%



Battery power: 70 - 51%



Battery power: 50 - 31%



Battery power: 30% or less

10.CH select

: Displays analog, logic, pulse, and calculation.

11.Digital display area

: Displays the input values for each channel. The ▲ and ▼ keys can be used to select the active channel (enlarged display). The selected active channel is displayed at the very top of the waveform display.

12.Quick settings

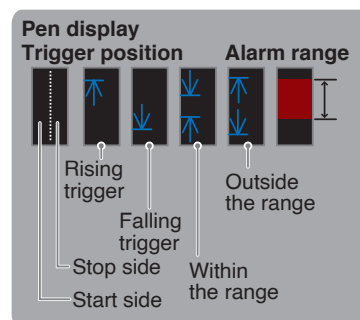
: Displays items that can be easily set. The ▲ and ▼ keys can be used to activate a Quick settings item, and the ◀ and ▶ keys to change the values.

13.Alarm display area

: Displays the status of the alarm output. (red = alarm generated, white = alarm not generated)

14.Pen display

: Displays the signal positions, trigger positions, and alarm ranges for each channel.

**15.File name display area**

: Displays the recorded file name during the recording operation. When data is being replayed, the display position and cursor information are displayed here.

16.Scale lower limit

: Displays the lower limit of the scale of the currently active channel.

17.Waveform display area

: The input signal waveforms are displayed here.

18.Scale upper limit

: Displays the upper limit of the scale of the currently active channel.

19.Recording bar

: Indicates the remaining capacity of the recording medium during data record. When data is being replayed, the display position and cursor information are displayed here.

Accompanying Software

The GL260 comes with two Windows OS-specific software applications. Please use them depending on the purpose.

- For simple control, use "GL28-APS".
- For control of multiple models, use "GL-Connection".

The latest version of the included software and USB driver can also be downloaded from our website.

Install USB Driver

To connect the GL260 to the computer via USB, a USB driver must be installed on the computer. The "USB Driver" and "USB Driver Installation Manual" are stored in the built-in memory of the GL260, so please install them according to the manual.

(Location of the manual: "Installation_manual" folder in "USB Driver" folder)

GL28-APS

The GL260, GL840, and GL240 can be connected via USB or LAN to control and operate settings, recording, data playback, etc. Up to 10 devices can be connected.

Item	Required environment
OS	Windows 11 (64Bit) Windows 10 (32Bit/64Bit) * We do not support OSs for which support by the OS manufacturer has ended.
CPU	Intel Core2 Duo or higher recommended
Memory	4GB or more recommended
HDD	32GB or more free space recommended
Display	Resolution 1024 x 768 or higher, 65535 colors or more (16Bit or more)

Installation Instructions

1. Use the USB drive mode function to copy the files stored in the main unit to your computer, or download the latest installer from our website.
2. To run the installation program, double-click "setup_English.exe" in the "GL28-APS" folder.
*If you downloaded the installer from the website, decompress the compressed file before running the installer.
3. From this point on, follow the instructions of the installation program to continue.

GL-Connection

Various models such as GL260, GL840, GL240 can be controlled and operated via USB or LAN connection for setting, recording, data playback, etc.

Up to 20 devices can be connected.

Item	Required environment
OS	Windows 11 (64Bit) Windows 10 (32Bit/64Bit) * We do not support OSs for which support by the OS manufacturer has ended.
CPU	Intel Core2 Duo or higher recommended
Memory	4GB or more recommended
HDD	32GB or more free space recommended
Display	Resolution 800 x 600 or higher, 65535 colors or more (16Bit or more)

Installation Instructions

1. Download the latest installer from our website.
2. Unzip the compressed file and double-click "setup.exe" in the folder to run the installer.
3. From this point on, follow the instructions of the installation program to continue.

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