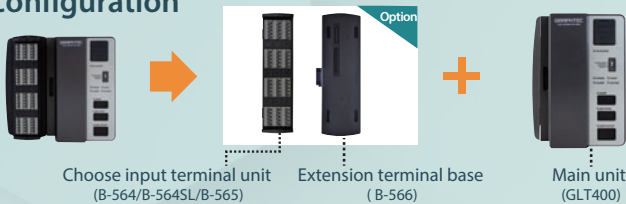


Multi-use data logger **NEW** midi **LOGGER** GLT400

Configuration



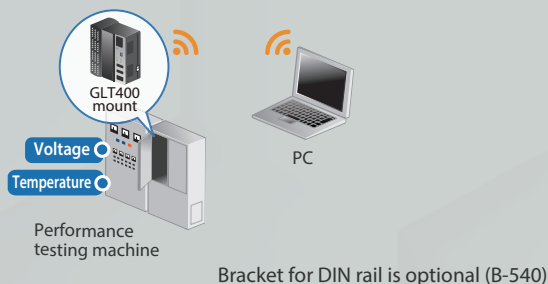
- Transferring data to PLC via Modbus/TCP protocol
- DC Power only for -20 to +60 operation
- Supports WEB server, FTP server and FTP client network functions for remote monitoring and controlling.
- High Isolation inputs to ensure signals are not corrupted by noise from other channels
- Connect as a remote terminal unit of GL840



* The illustration above shows GLT400 and Options (B-564SL+B-566) are installed

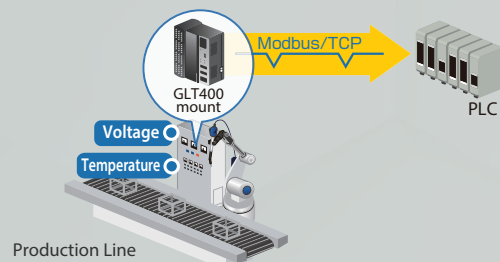
Mount or embed in a system and remote monitoring by PC.

Real time remote monitoring and control via Ethernet, Wireless LAN* and USB (Software is standard accessory)



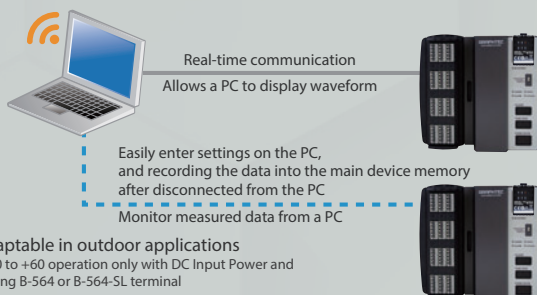
Modbus/TCP for PLC I/O channels. It can be used as additional I/Os.

Bidirectional communication between PLC and GLT400 via Modbus /TCP, Start or stop command can be sent from PLC.



Enable to use as PC hosted data logger

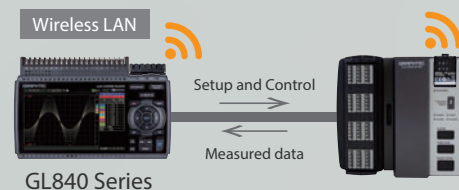
Connection to PC via USB, LAN and Wireless LAN. Standalone or PC hosted data logger for R&D, Quality and Production



Wide range operating environment: -20 to +60°C

Connect as a remote terminal unit of GL840

Communications via Ethernet or Wireless LAN.* (Expand up to 200 ch (incl. GLT400) per GL840 or Up to 5 units of GLT400 can be connected to GL840 host) Setup and control from GL840 and captured data can be stored on GL840 which is measured from GLT400.



* Requires optional B-568 When using multiple devices, use Router by WPS

Selectable terminal for different applications

Choose a terminal for your application needs depending on accuracy, isolation or connection type.

Easy connection with push-in wire terminal ($\phi 0.3$ to 1.3mm)

	Standard terminal (B-564)	Screwless terminal (B-564-SL)	Withstand high-voltage high-precision terminal (B-565)
Number of analog channels	20ch/terminal		
Input terminal type	M3 screw	Screwless	M3 screw
Measure range	Voltage: 20mV to 100V		
Temperature	Thermocouple: K • J • E • T • R • S • B • N • C (WRe5-26)		
Humidity	RTD: Pt100 • JPt100 • Pt1000 (IEC751) *3 wire only		
Maximum input voltage	0 to 100 % RH - using the humidity sensor (option B-530)		
Accuracy	20mV-2V Range: 60Vp-p (Input between (+)/(-) terminal), 5V-100V Range: 110Vp-p (Input between (+)/(-) terminal)		
Operating temperature	60Vp-p (Channel/Channel)		
	60Vp-p (Channel/GND)		
	300Vp-p (Channel/GND)		
	$\pm 0.1\%$ of F.S.		
	$\pm (0.05\% \text{ of F.S.} + 10\mu\text{V})$		
	-20 to 60°C (When used with GLT400)		
	0 to $+45^\circ\text{C}$ (When used with GLT400)		

* Terminals (B-564B, B-564SL, B-565) can be mixed.

However, if you mix with B-565 with B-564 or B-564-SL, the specification of B-565 will be equivalent as B-564 or B-564-SL.

Option

Terminal Base Cover (B-588)

Compatible with all the terminals
*Except using with shunt resistor (B-551)



B-588

Expandable up to 200 channels

From 20 to 200 channels, the GLT400 is scalable to meet your future needs.

Direct connection (w/o cable)

Extension terminal base unit connects directly to the GLT400



Connection cable (Max. 20m for 10pcs)

Cable connection between main body and screw terminal or screwless connection types



Connection cable for extension terminal (B-567 Series)

Configuration of direct connection

	20ch	40ch	60ch	80ch	100ch	120ch	140ch	160ch	180ch	200ch
GLT400 main unit	1	1	1	1	1	1	1	1	1	1
Terminal base	1	2	3	4	5	6	7	8	9	10
Input terminal	1	2	3	4	5	6	7	8	9	10

*Use the connection cable for extension terminal to the device, as you require.

Option

Connection cable for extension terminal



50cm type: B-567-05
2m type: B-567-20

Long term recording capability

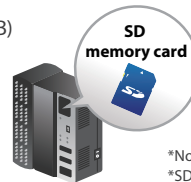
The standard features include a Built-in 4GB Flash memory, and SD card slot up to 32 GB to be used as external storage for recorded data at the same time as transferring the data to a PC. (1 File size is up to 2GB)

<Selectable from 2 types of file format>

- Graphtec Binary Data (GBD)
- CSV Data which can be open by Excel
- Supplied software allows GBD files to be converted to CSV format

Number of channels and sampling interval

Sampling interval	10ms	20ms	50ms	100ms	200ms	500ms	1s	2s
Number of Channels	1	2	5	10	20	50	100	200
Measuring								
Voltage	●	●	●	●	●	●	●	●
Temperature	—	—	—	●	●	●	●	●



*Not Supplied

*SD card cannot be used when the wireless LAN unit is used.

*Max single file size is 2GB. (use Relay mode to extend recording)

Sampling Interval and Capturing time

(When all 20 analog channels are being used, File size of captured data is 2GB)

Sampling interval	10ms	50ms	100ms	200ms	500ms	1s	10s
GBD Format	31 days	77 days	95 days	108 days	270 days	Over365	Over365
CSV Format	3 days	11 days	16 days	21 days	54 days	109 days	Over365

Notify by Alarm output function

Alarm level can be set for each channel

Alarm occurrence

- Alarm Lamp on device
 - Email Alarm Notification
 - Alarm Output (4 ports)
- Output port can be chosen for each channel
*Input/Output cable (B-513) is require

4 to 20mA Current measurement

- Shut resistance $250\ \Omega$ for current input *
- Installing $250\ \Omega$ (0.1%) resistor for converting 1 to 5V
- EU scaling function allows diverse measurements by converting voltage to user defined engineering units.

*Not compatible with B-564-SL

Option

Shunt resistor $250\ \Omega$ (B-551)

Useful function for long term data recording

Ring capture function

- The old data is deleted, and most recent data is saved. When stop the recording, selected data point is saved.

Relay capture function

- Data is continuously saved with hard disk space or capturing time without losing any data until capturing is stopped. The multiple files can be joined on GL-Connection.

Digital I/O port available (Requires option (B-513))

Input

- Logic/Pulse inputs (4 channels)
- Pulse mode: Instant/Counts/Revolutions
- Signal input for external trigger or external sampling.

Output

- Alarm output (4ch)
- When the input value exceeded the threshold level,

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Selectable power source for different application

AC100 to 240V

- Powered from AC adapter (Standard accessory)

* Supplied AC adapter does not comply with -20 to 60°C operating environment specification.
If you need to have the harsh operating environments specification, please contact the Graphtec sales office.

DC 8.5 to 24V

- Powered from DC Drive Cable(Requires option (B-513))

USB PD

- USB PD compliant battery and AC adapter (Supported USB PD 2.0 later)
*Not supplied

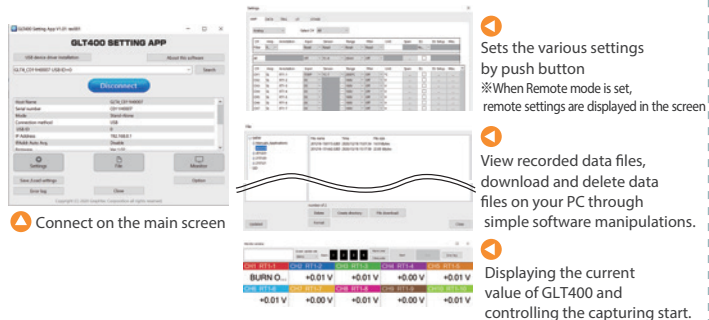
Standard Accessory for 2 types of PC software and web browser function

Software

GLT400 SETTING APP

Simple Operation S/W

Easily enter settings and monitor measured data from a PC.
GLT400 is ideal for use with single unit. GLT400 inherited the setting screen menus from GL series.

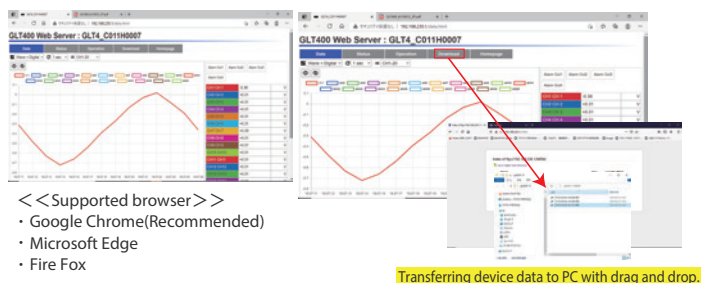


Useful function

Web browser function

Simple Operation S/W

GLT400 can be controlled, monitored, and data transferred to PC via web browser.

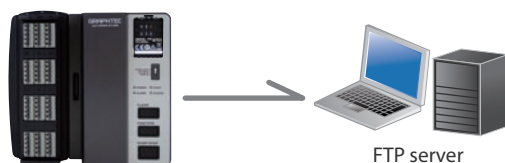


Useful function

FTP backup functions

Remote monitoring & Data sharing

Periodically backing up recording data to FTP server.
Backup Interval: 1H• 2H• 6H• 12H• 24H• per file
When the upload is succeeded, the file can be deleted automatically from device memory.



Software

GL-Connection

Advanced Function S/W

Max 20 units of GLT400 can be connected.
Display modes come standard with a Y-T View, Digital View, XY View and FFT View.
Contains direct Excel functions and a file connection function.
Can convert GBD files to CSV format.



Direct Excel function installed

A function that transfers recorded data directly to specified Excel template file with recording start.
Creates a measured data file when stop recording by utilizing a computational expression and macro in combination.

Available functions on 2 software and web browser

	GLT400 SETTING APP	GL-Connection	WEB browser
Device connection	Wire LAN	●	●
	Wireless LAN	●	●
	USB	●	×
Number of connected units	1 unit	20 units	1 unit
Device setting	●	●	×
Device control(Start/Stop)	●	●	●
	●	●	●
	●	●	●
Display data	Digital value	●	●
	Waveform	×	●
	Other	×	×
Redisplaying the recorded file	×	●	×
Connect/ Disconnect during recording	●	×	●
Data transfer to PC	●	●	●
File conversion (CSV)	×	●	×
Supported model	GLT400 only	GL Series *	GL Series *

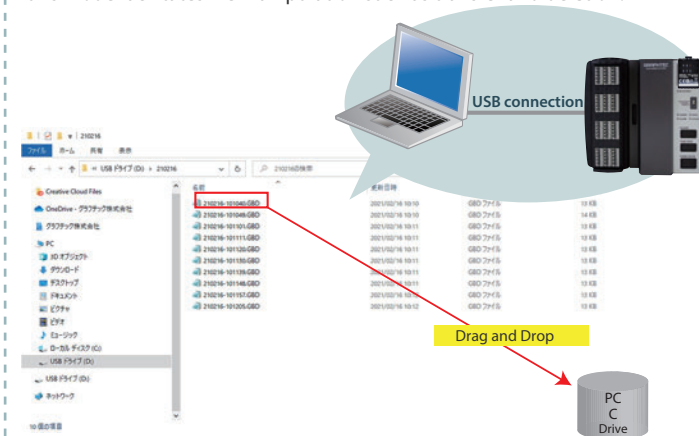
※ GL7000-GL2000-GL980-GL840series-GL240-GLT400(Currently-used models only)

Useful function

USB Drive Mode

Easy&Convenient

Internal memory is recognized as a removal disk, this mode facilitates file manipulation such as transfer and deletion.



SDK (Software Development Kit) is offered for free

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