

GRAPHTEC

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

- Data collection from the PLC via Modbus/TCP protocol
- Adaptable to a wide range of operating environment (-20°C to +60 °C) (Conditional)
- 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



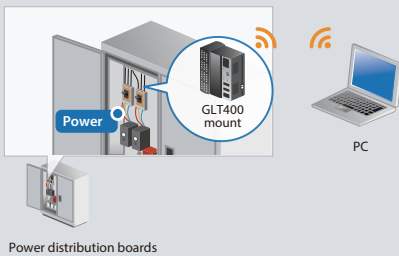
* The illustration above shows GLT400 and Options (B-564SL+B-566) are installed



Useful functions of GLT400

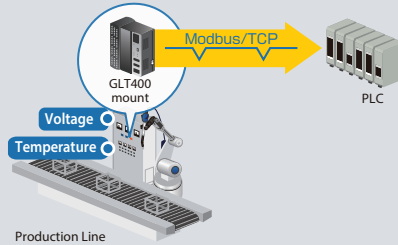
Mount or embedded into the system and remote monitoring by PC.

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



Enable to transfer the data to the PLC. It can be used as additional I/Os.

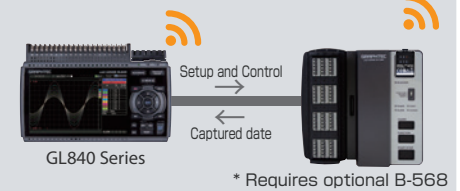
Bidirectional communication between PLC and GLT400 via Modbus /TCP, Start or stop command can be sent from PLC.



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)

Setup and control from GL840 and captured data can be stored on GL840 which is measured from GLT400.



* Requires optional B-568

Various kinds of input type (Analog signal input)

- Voltage** ■ 20 mV-100V
- Temperature** ■ Thermocouple: K, J, E, T, R, S, B, N, C (WRe5-26)
■ RTD (Resistance Temperature Detector): Pt100, JPt100, Pt1000 (IEC751)
- Humidity** ■ 0 to 100 % RH - using the humidity sensor
- Current (4~20mA)** ■ using optional shunt resistance 250Ω

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

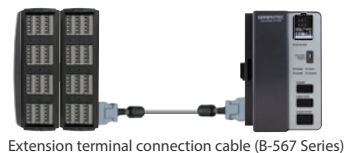
- Input** ■ Logic/Pulse inputs (4 channels)
Pulse mode: Instant/Counts/Revolutions
■ Signal input for external trigger or external sampling.
- Output** ■ Alarm output(4ch)
When the input value exceeded the threshold level, output the alarm.
Output format: Open collector output (5 V, pull-up resistance 10KΩ)

Expandable up to 200 channels

- **Direct connecting the extension terminal bases**
Extension terminal base unit connects directly to the GLT400.



- **Cable connection between the extension terminal base (Max.20m for 10pcs)**
extension terminal base unit connects to the GLT400 via extension terminal connection cable.



Save data in the Flash Memory



- Built-in 4GB Flash Memory
- SD Card Slot
Support SDHC memory card, up to 32GB

* When the optional wireless unit (B-568) is inserted, the SD CARD cannot be inserted.
* Maximum capture capacity in one file is 2GB










Main unit specifications

Item	Description	
Number of analog terminal units	Maximum 10 units (200CH)	
How to connect Analog Terminal Unit	Direct-connect or connect with the extension terminal connection cable (sold separately) between the GLT400 and terminal unit, or between terminal units. Cables are 50cm or 2m length	
Memory devices	Memory capacity(*1)	Internal memory (MEM) : approx. 4GB SD CARD slot : 1 (Compatible with SDHC, up to approx. 32GB memory available. The memory format only supports FAT/FAT32.)
	Memory contents	Setup conditions, Measured data
PC Software	Standard Accessories (GLT400 Setting App, GL-Connection)	
PC I/F	Types	Ethernet(10BASE-T/100BASE-TX),USB 2.0,Wireless LAN (Option)
	Functions	Setup and control of the GLT400 from PC, Data transfer to the PC, Connect to network as a remote terminal unit of GL840
	Ethernet functions	Web server functions, FTP server function, FTP client function,NTP client function,DHCP client function,Modbus/TCP Protocol
	USB functions	USB drive mode : Transfer and delete the captured files in the internal memory or SD CARD
Operating Environment	-20 to 60°C (Temperatures vary by analog terminal, AC adapter: 0 to 45°C) 5 to 85%R.H.(non condensed)(When using the USB PD as the power supply, the spec. is based on power supply requirements.)	
Power source	AC adapter	100 to 240 V AC, 50/60 Hz
	DC power	8.5 to 24V DC (maximum 26.4V) (DC drive cable (option B-514) is required)
	USB PD	USB PD compatible, external USB PD compatible battery (USB Power Delivery Revision 2.0 later)
External dimensions (approx.) [W×D×H](*2)	Input terminal (B-564) or Screwless terminal (B-564SL) is attached: 187.5 × 183 × 65.5 mm (excluding protrusions) Input terminal (B-565): 187.5×183×65.5mm (excluding protrusions)	
Weight (approx.)(*2)	1120g (In case input terminal (B-565) is attached: Differ according to terminal type)	
Others	Vibration -tested condition: Automobile parts Type 1 Class A equivalent	

Analog Input terminal specifications (Option)

Item	Standard terminal (B-564)	Screwless terminal (B-564SL)	Withstand high-voltage high-precision terminal (B-565)
Number of analog channels	20ch	20ch	20ch
Input terminal type	M3 screw type terminal	Screwless terminal	M3 screw type terminal
Input method	Photo MOS relay scanning system. All channels isolated balanced input *Terminal b to be used to connect the Resistance bulb is shorted within all channels.		
Sampling speed	10msec to 1 hour depending on configuration		
Measurement range	Voltage	20·50·100·200·500mV, 1·2·5·10·20·50·100V, 1-5V F.S.(Full Scale)	
	Temperature	Thermocouple: K·J·E·T·R·S·B·N·C (WR5-26) RTD (Resistance Temperature Detector): Pt100·JPt100·Pt1000 (IEC751) Temperature range: 100 °C, 500 °C, 2000 °C (Fahrenheit: 150 °F, 750 °F, 3000 °F)	
	Humidity	0 to 100 % (using the humidity sensor (option B-530))	
A/D converter	Sigma-Delta type, Resolution: 16-bit (effective resolution: 1/40000 of the +/- range)		
Maximum input voltage	Between (+) / (-) terminal	20 mV to 2 V range: 60 Vp-p, 5 V to 100 V range: 110 Vp-p	
	Channels ((-) / (-))	60Vp-p	600Vp-p
	Channel / GND	60Vp-p	300Vp-p
Filter (moving average basis)	OFF·2·5·10·20·40		
Operating environment	-20~60°C(5~85%R.H.)		0~45°C(5~85%R.H.)

Options and Accessories

<p>Standard Terminal</p> <p>Analog Input terminal</p>  <p>B-564</p>	<p>Screwless terminal</p> <p>Analog Input terminal</p>  <p>B-564SL</p>	<p>Withstand high-voltage high-precision terminal</p> <p>Analog Input terminal</p>  <p>B-565</p>	<p>Terminal base cover</p> <p>Compatible with all the terminal, except using with shunt resistor.</p>  <p>B-588</p>	<p>Wireless LAN unit</p>  <p>B-568</p>
<p>Base unit for input terminal</p> <p>Base unit for input terminal (B-564, B-565 or B-564SL)</p>  <p>B-566</p>	<p>Connection cable for extension terminal</p> <p>Cable to connect GLT400 and B-566, 50 cm long</p>  <p>B-567-05</p> <p>Cable to connect GLT400 and B-566, 2 m long</p>  <p>B-567-20</p>		<p>Bracket for DIN rail</p>  <p>B-540</p>	

*1 : Possible to save up to 2GByte for one file

*2 : Main unit, Analog terminal and Terminal base unit are installed. AC adapter is not included in dimensions and weight 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 backup of data whenever possible to avoid data loss.
- Brand names and product names listed in this brochure are the trademarks or registered trademarks of their respective owners.
- Specifications are subject to change without notice. For more information about product, please check the web site or contact your local representative.



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.

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GLT400_KE10666_1D