GRAPHIEC



Compact data logger

PetitLOGGER Series

GL100-WL

with wireless LAN

input modules.

GL100-N without wireless LAN

Shown in actual size

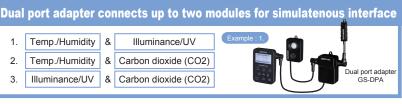
GL series announces support for additional sensors in volatile wireless and non-wireless environment with ability to exchange













Packages will include combined models best suited for your application

GL100 will feature package solutions that combines several sensors and modules together for a one stop solution as an out-of-the-box-ready item for the specific application that best fits your need

Combo models for GL100-WL

GL100-WL & GS-TH

GL100-WL & GS-3AT

GL100-WL & GS-4VT

Temp./Humidity Set: GL100-WL-TH Acceleration Set: GL100-WL-3AT Voltage/Temp. Set: GL100-WL-4VT Thermistor Set: GL100-WL-4TSR

GL100-WL & GS-4TSR

Combo models for GL100-N

Temp./Humidity Set : GL100-N-TH Acceleration Set : GL100-N-3AT GL100-N & GS-TH

GL100-N & GS-3AT

Voltage/Temp. Set: GL100-N-4VT GL100-N & GS-4VT

Thermistor Set : GL100-N-4TSR GL100-N & GS-4TSR

Wireless access will support multiple configurations for both secured and world wide internet access





Available functions	Configuration Case 1		Configuration Case 2		Configuration Case 3			
	PC (#1)	Smart device (#1)	PC (#2) (*1)	Smart device (#2)	PC (#3) (*1)	Smart device (#3)	PC (#4)	Smart device (#4)
Control of full functions	•		•		•		(*2)	
Control of simple functions (Start/Stop, Sampling, Alarm)		•		•		•		(*2)
Display Waveform/ Digital value	•	•	•	•	•	•	(*2)	(*2)
Save data to PC	•		•		•		(*2)	
Receive message via email					•	•	•	•
	: Fund	ction is av	vailable	: Fun	iction is a	vailable i	n the cor	ndition

- *1 : Multiple PC cannot make connection to the GL100 simultaneously.
- *2 : Assign a static global IP. Or DDNS service must be available within network and the GL100 configured as a device within the WAN.

Includes Application Software for General-Purpose or Industry-specific Customized Platform

General purpose application software will continue to have the ability to view in Y-T chart, waveform, and digital values. The new industry-specific customize software will feature targeted software in accommodating users with indicators that are specific and familiar to that industry.

General-purpose software for PC





+123.4 °C +123.4 ℃ +123.4 ℃



Waveform Screen

Digital Value Screen

Digital Value Screen

Waveform Screen

Industry-specific sof	ftware (for PC and Smart Device)
Specific- Magauramenty canability	

	industry specific software (for 1 o and other bevice)				
Specific- industry	Measurementv capability	Description			
Agriculture	Temperature Accumulation Humidity Deficit Amount of solar radiation Amount of ultraviolet rays	Confirm temperature accumulation, humidity deficit, solar radiation, ultraviolet rays as part of the vital indicators for healthy plant growth. Measure optimal saturation deficit by understanding the best conditions applied for growth, flowering, and fruit growth using temperature accumulation and optimal growth environment scheme.			
Logistics	Search and display acceleration thresholds Temperature Accumulation Humidity Deficit	Transportation of industrial equipment, temperature controlled transport of food, and warehouse temperature management can all be monitored to provide the safest and secured operation. Safety measurements through monitoring the vibration of the transport vehicles can be vital to heavy-industrial and vibration sensitive equipment. Accumulated temperature monitoring and humidity levels will be vital to keeping food fresh in a controlled environment.			
Power measure- ment	AC current Power Integrated power	Power and electric energy levels will be displayed on the graph using measured AC current locally at the factory, buildings and industrial equipment. Corresponds to three power systems including two-wire single-phase, three-wire single-phase, or three-wire in three-phase.			

Customize your software using the SDK (Software Development Kit) provided by Graphtec.

Support your specific software

Sufficient capacity for data

Data Capturing Time

3			
Condition	Capturing time		
Built-in memory (Approx. 4.9MB)	Approx. 254 days		
micro SD memory card	Over 2 years		

Condition Example Temp./Humidity sensor (GS-TH). 1 minute sampling interval

Available battery option

Battery Operating Time

Condition	Operating time	Condition Example :
When saving data to the Built-in memory with WLAN disabled	Approx. 2 weeks	Temp./Humidity sensor (GS-TH), 1 minute sampling interval, using Alkaline battery (AA size x 2)

^{*} USB power source will be required for Voltage/Temperature (GS-4VT), and CO2 sensor (GS-CO2).

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Specifications of GL1	00-WL, GL100-I	N		
Item	Description			
Number of channel	annel Up to 4 channels			
	(varies by the type of input module used, and measurement type is fixed with each input module.)			
Interface to PC	USB 2.0, Wireless LAN (IEEE802.11b) in GL100-WL			
Functions	Real-time data	a capturing		
	. Displays the captured data value to the LCD in real-time and save the monitoring values			
	Set conditions using the Menu setting While using Wireless LAN:			
	 Output capture 	ed data in real-time		
	 Output the sar 	ved data from the internal memory		
	 Full control of 	the GL100 from the PC application software		
	 Send warning 	s via the e-mail in GL100-WL (*1)		
	While using US	B port :		
	 Output capture 	ed data in real-time		
	Output the sar	ved data from the internal memory		
	 Full control of 	the GL100 from the PC application software		
Display	LCD (backlit mo	onochrome, graphical type)		
Storage device	• Built-in RAM (Approx. 4.9 MB)		
	• micro SD mer	mory card		
	* Maximum file	size for captured data is 1.9 GB.		
Sampling interval	0.5 to 30 secon	ds and 1 to 60 minutes		
Output signal	Alarm (1 channel), Warnings message is sent via the e-mail in GL100-WL (*1)			
Power source	Alkaline batter	ry (AA x 2)		
	 USB bus-pow 	er (micro USB connector)		
	* The required	power capacity is 5V, 1A when AC adapter for microUSB drive		
	is used. AC a	dapter is not included.		
Operating environment	Temperature : -	-10 °C to 50 °C		
	Humidity : up to 80% RH (non condensed)			
	Water resistance			
External dimension		00 x 27 mm (exclude protrusion)		
Weight	GL100-N : Approx. 125 g, GL100-WL : Approx. 130 g			
Software				
Item	Description			
Supported OS	Windows: 8.1 / 8 / 7 / Vista (32- or 64-bit), Android OS: 4.3 or later, iOS: 7 or later			
Controlled units	Up to 10 units			
Accessories				
Item	Model number	Description		
Thermistor sensor (Normal type)	GS-103AT-4P	Sensor for GS-4TSR module, 3 m, 4 pcs/set, Temp. range : -40 to 105 °C		
Thermistor sensor (Ultrathin type)		Sensor for GS-4TSR module, 3 m, 4 pcs/set, Temp. range : -40 to 120 °C		
AC Current sensor	GS-AC50A	For GS-DAP-AC module, Cable 200 mm, Current range : 50 A AC		
AC Current sensor	GS-AC100A	For GS-DAP-AC module, Cable 200 mm, Current range : 100 A AC		
AC Current sensor	GS-AC200A	For GS-DAP-AC module, Cable 200 mm, Current range : 200 A AC		
Dual port adapter	GS-DPA	Connect up to two (2) sensors		
Module Extension Cable	GS-EXC	Extension cable for input module, 1.5 m long		

Specifications of inpu			
Temperature & Humid			
Type of measurement	Temperature, and Humidity		
	Accumulated temp. (calculated value), Dew-point temp. (calculated value)		
Measuring range	Temperature : -20 to 85 °C		
	Humidity: 0 to 100 % RH		
Acceleration & Tempe	rature sensor (GS-3AT)		
Type of measurement	Tri-axial acceleration (X-, Y-, Z-axis), and Temperature		
Measuring range	Acceleration: ±2G(20 m/s²), ±5G (50 m/s²), ±10G (100 m/s²)		
	Temperature : -10 to 50 °C		
Sampling interval	5 to 100 ms in memory mode, 0.5 s to 60 min. in direct mode (*2)		
Voltage & Thermocoup	ple input terminal (GS-4VT)		
Number of channel	Analog voltage 4 channels,		
	Logic or Pulse 4 channels (*3)		
Measuring range	Voltage: 20mV to 50V, 1-5V FS		
3 . 3.	Thermocouple: K type (-200 to 1370 °C) & T type (-200 to 400 °C)		
	Logic (signal pattern): 0 to 24 V (common ground)		
	Pules (count): Max. 200 counts/sampling intervall, accumulating up to 65535 counts		
Temperature sensor in	nput terminal (GS-4TSR)		
Number of channel	Sensor 4 channels,		
	Logic or Pulse 4 channels (*3)		
Sensor	Thermistor sensor (optional)		
Measuring range	Temperature : -40 to 120 °C (varies by the type of sensor)		
	Logic (signal pattern): 0 to 24 V (common ground)		
	Pulse (count): Max. 200 counts/sampling interval, accumulating up to 65535 counts		
Carbon dioxide (CO2)	sensor (GS-CO2)		
Type of measurement	Carbon dioxide concentration		
Measuring range	0 to 9999 ppm		
Operating environment	Temperature : 0 °C to 50 °C, Humidity: up to 80% RH (non condensed)		
Illuminance & Ultravio	let sensor (GS-LXUV)		
Type of measurement	Illuminance, and UV intensity		
7,	Accumulated Illuminance (calculated value), Accumulated UV intensity (calculated value)		
Measuring range	Illuminance : 0 to 200 klx		
3 - 3	UV intensity: 0 to 30 mW/cm ²		
AC Current sensor ada			
Type of measurement	Current		
,,	Power (calculated value), Electric energy (calculated value)		
Application circuit	Single-phase two-wire. Single-phase three-wire system, or Three-phase three-wire		
Application circuit Sensor	Single-phase two-wire, Single-phase three-wire system, or Three-phase three-wire Clamp-on current probe (optional), Two (2) sensors are able to connect		

- : A mail server is required for using the e-mail function.
- *2: Memory capacity is up to 128 k samples in the memory mode.
 *3: The measurement type for analog input channels can each be separately selected but also available as set of 4 channels.

* The GL100-WL uses radio waves in the 2.4GHz band. It may interfere with other devices that use radio waves in the same frequency band. Some actions are required to avoid radio interference when necessary This equipment can be used in limited regions by the regulations of the Wireless Telegraphy Act.

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 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

The before using it, please read the user manual and then please use it properly in accordance with the description.

To avoid an occurrence of malfunction or an electric shock by leakage, please ensure ground connection and use it in specified power sources.

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^{*} File size for captured data is up to 1.9GB on the micro SD memory card