GRAPHTEC

Compact data logger

PetitLOGGER

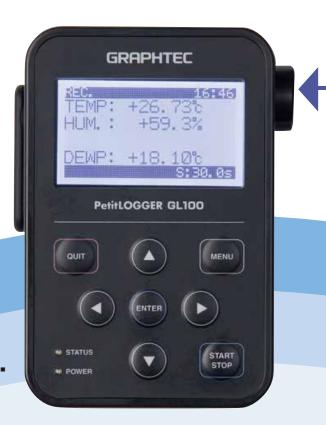
Main body

GL100-WL with wireless LAN

GL100-N without wireless LAN

Shown in actual size

Simple data logging solution with various exchangeable sensors.





Temp. (-20 to 85 °C)

Humidity (0 to 100 % RH)





Sensors

GS-3AT Tri-axial acceleration (max. 10 G), Temp. (-10 to 50 °C)



GS-CO2 CO2 concentration (max. 9999 ppm)



GS-LXUV

UV intensity (max. 30 mW/cm



GS-4VT Illuminance (max. 200 klx),

4ch Voltage (max. 50V) or Temp. (TC: K & T), 4ch Logic or Pulse



GS-4TSR Temperature (-40 to 120 °C), 4ch Logic or Pulse



GS-DPA-AC Current (50, 100, 200A Max. 2 sen-sors or three-phase power

Dual port adapter connects up to two modules for simulatenous interface



& Carbon dioxide (CO2) Illuminance/UV | & | Carbon dioxide (CO2)





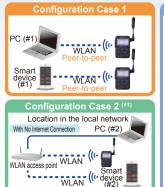
Thermistor senso

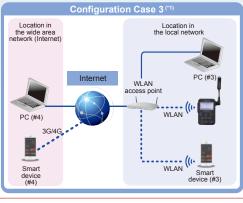
GS-103AT-4P (Normal type)

GS-103JT-4P (Ultrathin type)



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					•	•	•	•
Eunction is available			. Function is available in the condition					

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

GL100-WL can be connected as a remote sensor.

GL100-WL can be connected to the GL840 or GL240 as a remote sensor using the WLAN feature.







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







Digital Value Screen

General-purpose software for Smart Device (Android OS/iOS)



Digital Value Screen



Waveform Screen

SDK (Software development kit) can be applied from Graphtec Web

Industry-specific software(for PC)

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 most secure 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.			

Sufficient capacity for data

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

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

Available battery option

Battery Operating Time		0 1141
Condition	Operating time	Condition Temp./Hu
When saving data to the Built-in	Approx. 2 weeks	1 minute

n Example lumidity sensor (GS-TH), 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).

* File size for captured	data is up to 1.9G	B on the micro SD memory card.		
Specifications of GL1	00-WL, GL100-I	N		
Item	Description			
Number of channel	Up to 4 channels			
	1 '	e 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 dat			
	Displays the captured data value to the LCD in real-time and save the monitoring values			
	Set conditions	s using the Menu setting		
	While using Wireless LAN : • Output captured data in real-time			
	Output the saved data from the internal memory			
	• Full control of the GL100 from the PC application software			
	Send warnings via the e-mail in GL100-WL (*1)			
	While using USB port :			
	Output captur	ed data in real-time		
	Output the sa	ved data from the internal memory		
	Full control of the GL100 from the PC application software			
Display	LCD (backlit me	onochrome, graphical type)		
Storage device	• Built-in RAM (Approx. 4.9 MB)			
	• micro SD memory card			
	* Maximum file size for captured data is 1.9 GB.			
Sampling interval	0.5 to 30 seconds 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 battery (AA x 2)			
	USB bus-power (micro USB connector)			
	* The required power capacity is 5V, 1A when AC adapter for microUSB drive			
	is used. AC adapter is not included.			
Operating environment	· ·			
	Humidity : up to 80% RH (non condensed)			
	Water resistance : IP54			
External dimension	Approx. 66 x 100 x 27 mm (exclude protrusion)			
Weight	GL100-N : App	rox. 125 g, GL100-WL : Approx. 130 g		
Software				
Item	Description			
Supported OS	Windows: 10 / 8.1 / 7 (32- or 64-bit), Android OS: 4.1 - 8.0, iOS: 9 / 10 / 11			
Controlled units	Up to 10 units			
Accessories				
Item	Model number			
Thermistor sensor (Normal type)		Sensor for GS-4TSR module, 3 m, 4 pcs/set, Temp. range : -40 to 105 °C		
Thermistor sensor (Ultrathin type)				
AC Current sensor	GS-AC50A			
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			

OOD power source wi	in be required for voltage/ remperature (GS-4VT), and GOZ sensor (GS-GOZ).
Out of the state of the state of	d on a divida
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 & Thermocou	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
ŭ	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)
ŭ	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
	Temperature : 0 °C to 50 °C, Humidity: up to 80% RH (non condensed)
Illuminance & Ultravio	
Type of measurement	Illuminance, and UV intensity
Type of medodrement	Accumulated Illuminance (calculated value), Accumulated UV intensity (calculated value)
Measuring range	Illuminance : 0 to 200 klx
weasumy range	UV intensity : 0 to 30 mW/cm ²
AC Current sensor ad	,
Type of measurement	Current
Type of measurement	Power (calculated value), Electric energy (calculated value)
Application circuit	Single-phase two-wire, Single-phase three-wire system, or Three-phase three-wire
Sensor	Clamp-on current probe (optional), Two (2) sensors are able to connect
Measuring range	50, 100, 200 A RMS (varies by the sensor)
weasuring range	50, 100, 200 A Kivio (varies by the sensor)

- *1 : 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.

Brand names and product names listed in this brochure are the trademarks or registered trademarks of their respective owners.

Items mentioned 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

GRAPHTEC Graphtec Corporation

503-10 Shinano-cho, Totsuka-ku, Yokohama 244-8503, Japan Tel: +81-45-825-6250 Fax: +81-45-825-6396

