GRAPHTEC

Compact data logger

Series

Main body only GL100-WL w/ Wireless LAN MSRP \$295.00





The new GL100 has the ability to trigger your controller in maintaining the perfect climate.

Put the GL100 to work for you!

TRIGGERING **FUNCTION** CO2, Temp, Oxygen

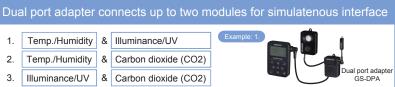
GL100-WL-TH MSRP \$430.00 (Main Body with Temp/Humidity Sensor)















GL100-WL w/ Wireless LAN MSRP \$295.00 (Main body unit only. Requires sensor/adapter)

Line-up includes combined models best suited for application base

GL100 will feature combo solutions that are packaged together and will be offered as a one stop solution as an out-of-the-box-ready item for the specific application that best fits your need.

Combo models for GI 100-WI

Combo

GL100-N

GL100-WL & GS-TH MSRP \$430.00

Temp./Humidity Set: GL100-N-TH GL100-N & GS-TH MSRP \$380.00

GL100-WL & GS-3AT MSRP \$590.00

Acceleration Set: GL100-N-3AT GL100-N & GS-3AT MSRP \$540.00

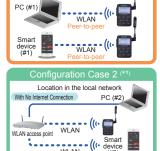
Temp./Humidity Set: GL100-WL-TH Acceleration Set: GL100-WL-3AT Voltage/Temp. Set: GL100-WL-4VT Thermistor Set: GL100-WL-4TSR GL100-WL & GS-4VT MSRP \$720.00

> Voltage/Temp. Set: GL100-N-4VT GL100-N & GS-4VT MSRP \$670.00

GL100-WL & GS-4TSR MSRP \$490.00

Thermistor Set: GL100-N-4TSR GL100-N & GS-4TSR MSRP \$440.00

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)	(*3 ₎
	Save data to PC	•		•		•		(*2)	
	Receive message via email					•	•	•	•
	Function is available			Function is available in the condition					

- *1: Multiple PC cannot make connection to the GL100 simultaneously.
- *2: Static global IP address needs to be assigned. Or DDNS service needs to be available, and the GL100 needs to be configured as a device in the WAN.

Incorporate 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 ℃ +123.4 °C +123.4 ℃

+123.4 °C

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

Waveform Screen Digital Value Screen

Digital Value Screen Waveform Screen

Support your peculiar software

Industry-specific software	(for PC and Smart Device)	١
moustry-specific software	(10) PC and Smart Device)

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 fruiting using temperature accumulation and optimal growth environment analysis.
Logistics	Search and display acceleration thresholds Temperature Accumulation Humidity Deficit	Transpiration 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.

Available to downloa in end of 2014 Customize your software using the SDK (Software Development Kit) provided by Graphtec.

The SDK will be available at beginning 2015.

Sufficient capacity for data

Capturing time
Approx. 296 days
Over 2 years

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

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 such as two-wire single-phase, three-wire single-phase, or three-wire in three-phase.

Available battery option

Battery Operating Time			Condition Example:	
	Condition	Operating time	Temp./Humidity sensor (GS-TH),	
When saving data to the Built-in memory with WLAN disabled		Approx. 2 weeks	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)

Specifications of GL1	00-WL, GL100-N			
Item	Description			
Number of channel	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 capturing			
	· Display the captured	d data value to the LCD in real-time and save the monitoring values		
	· Set conditions using			
	While using Wireless LAN:			
	 Output captured da 			
	Output the saved data from the internal memory			
		GL100 from the PC application software		
		the e-mail in GL100-WL (*1)		
	While using USB po			
	 Output captured da 			
		data from the internal memory		
	• Full control of the	GL100 from the PC application software		
Display		hrome, graphical type)		
Storage device	 Built-in RAM (Appr 			
	 micro SD memory 			
* Maximum file size for captured data				
Sampling interval	0.5 to 30 seconds a			
Output signal	Alarm (1 channel), Warnings message is sent via the e-mail in GL100-WL (*1)			
Power source	Battery (AA x 2) USB bus-power (micro USB connector)			
		er capacity is 5V, 1A when AC adapter for microUSB drive		
	is used. AC adapte			
Operating environment	Temperature: -10 °C to 50 °C			
		RH (non condensed)		
	Water resistance: IF			
External dimension Approx. 66 x 100 x 27 mm (exclude protrusion)				
Weight	GL100-N: Approx. 1	25 g, GL100-WL: Approx. 130 g		
Software				
Item	Description			
Supported OS Windows: 8.1 / 8 / 7 / Vista (32		/ 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)	GS-103JT-4P	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
	rature sensor (GS-3AT)
Type of measurement	
Measuring range	Acceleration: ±2 (20 m/s²), ±5 (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)
Illuminance & Ultravio	
Type of measurement	Illuminance, and UV intensity
	Accumulated Illuminance (calculated value), Accumulated UV intensity (calculated value
Measuring range	Illuminance: 0 to 200 klx
	UV intensity: 0 to 30 mW/cm ²
Carbon dioxide (CO2)	sensor (GL-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)
AC Current sensor ad	apter (GS-DPA-AC)
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
Sensor	Clamp-on current probe (optional), Two (2) sensors are able to connect
Measuring range	50, 100, 200 A RMS (varies by the sensor)
Voltage & Thermocou	ple input terminal (GL-4VT)
Number of channel	Analog voltage 4 channels,
	Logic or Pulse 4 channels (*3)
Measuring range	Voltage: 20mV to 50V, 1-5V FS
	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 (GL-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

- *1: The 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.

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

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 the USA, Canada, EU, and Japan by the regulations of the Wireless Telegraphy Act.