GRAPHTEC



Compact data logger

GL100 Series

Main body
GL100-N

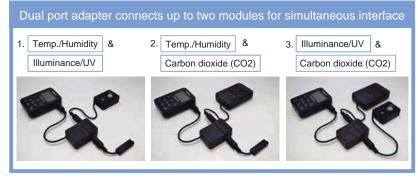
Shown in actual size

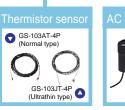
GL series announces support for additional sensors in volatile LAN and stand-alone environments with the ability to exchange input modules.













Line-up includes combined models best suited for application base

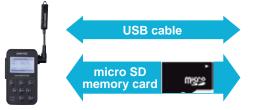
GL100 will feature combo solutions that are packaged together and will be offered as a one stop solution as an out-of-the-box-ready item for the specific application that best fits your need.

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

Acceleration Set: GL100-N-3AT
GL100-N & GS-3AT

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

Easy connection to PC

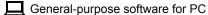


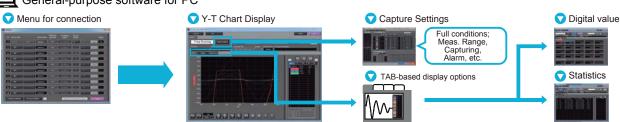


- USB connection is also available through the GL100 with real-time control from the PC software. Historical data can also be viewed by directly accessing the internal memory of the GL100 from the PC software.
- Data stored on the GL100 can be easily transferred to the PC using a microSD memory card and replay in the PC software.

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.





Industry-specific software (for PC)

Specific- industry	Measurementy 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.	Available to downlod in end of 2014
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 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 such as two-wire single-phase, three-wire single-phase, or three-wire in three-phase.	

Support your peculiar software

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

The SDK will be available at beginning 2015.

Sufficient capacity for data

Data Capturing Time		С
Condition	Capturing time	T
Built-in memory (Approx. 4.9MB)	Approx. 296 days	- 1
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 Example:
Condition	Operating time	Temp./Humidity sensor (GS-TH),
When saving data to the Built-in memory	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-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			
Functions	Real-time data capturing			
	Display the captured data value to the LCD in real-time and save the monitoring			
	 Set conditions using 	the Menu setting		
	While using USB po	ort:		
	 Output captured da 			
	Output the saved data from the internal memory			
	Full control of the GL100 from the PC application software			
Display	LCD (backlit monochrome, graphical type)			
Storage device	Built-in RAM (Approx. 4.9 MB)			
micro SD memory of				
	for captured data is 1.9 GB.			
Sampling interval	0.5 to 30 seconds and 1 to 60 minutes			
Output signal	Alarm (1 channel)			
Power source	• Battery (AA x 2)			
	USB bus-power (micro USB connector)			
	* The required power capacity is 5V, 1A when AC adapter for microUSB dr			
Operating environment	is used. AC adapter is not included. t Temperature: -10 °C to 50 °C			
Operating environment				
	Humidity: up to 80% RH (non condensed) Water resistance: IP54			
External dimension		27 mm (exclude protrusion)		
Weight		25 g, GL100-WL: Approx. 130 g		
Software				
Item	Description			
Supported OS		/ 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		

pecifications of input module emperature & Humidity sensor (GS-TH) ype of measurement Temperature, and Humidity Accumulated temp. (calculated value), Dew-point temp. (calculated value) Temperature: -20 to 85 °C Humidity: 0 to 100 % RH Coccleration & Temperature sensor (GS-3AT) Ype of measurement Acceleration in 3-axis (X-, Y-, Z-axis), and Temperature
ype of measurement Temperature, and Humidity Accumulated temp. (calculated value), Dew-point temp. (calculated value) leasuring range Temperature: -20 to 85 °C Humidity: 0 to 100 % RH acceleration & Temperature sensor (GS-3AT)
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Humidity: 0 to 100 % RH acceleration & Temperature sensor (GS-3AT)
cceleration & Temperature sensor (GS-3AT)
vpe of measurement Acceleration in 3-axis (X- Y- Z-axis) and Temperature
leasuring range Acceleration: ±2 (20 m/s²), ±5 (50 m/s²), ±10G (100 m/s²)
Temperature: -10 to 50 °C
ampling interval 5 to 100 ms in memory mode, 0.5 s to 60 min. in direct mode (*1)
luminance & Ultraviolet sensor (GL-LXUV)
ype of measurement Illuminance, and UV intensity
Accumulated Illuminance (calculated value), Accumulated UV intensity (calculated value)
leasuring range Illuminance: 0 to 200 klx
UV intensity: 0 to 30 mW/cm²
arbon dioxide (CO2) sensor (GL-CO2)
ype of measurement Carbon dioxide concentration
leasuring range 0 to 9999 ppm
Departing environment Temperature: 0 °C to 50 °C, Humidity: up to 80% RH (non condensed)
C Current sensor adapter (GS-DPA-AC)
ype of measurement Current
Power (calculated value), Electric energy (calculated value)
pplication circuit Single-phase two-wire, Single-phase three-wire system, or Three-phase three-w
ensor Clamp-on current probe (optional), Two (2) sensors are able to connect
leasuring range 50, 100, 200 A RMS (varies by the sensor)
oltage & Thermocouple input terminal (GL-4VT)
lumber of channel Analog voltage 4 channels,
Logic or Pulse 4 channels (*2)
leasuring 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 coun
emperature sensor input terminal (GL-4TSR)
lumber of channel Sensor 4 channels,
Logic or Pulse 4 channels (*2)
ensor Thermistor sensor (optional)
leasuring 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 count

- *1: Memory capacity is up to 128 k samples in the memory mode.
- *2: The measurement type for analog input channels can each be seperately 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.