GRAPHTEC



Compact data logger

GL100 Series

Main body
GL100-N

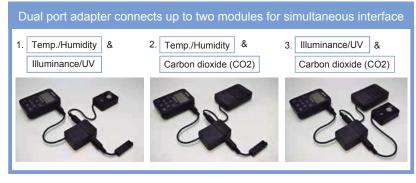
Shown in actual size

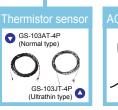
GL series announces support for additional sensors in volatile LAN and stand-alone environments with the ability to exchange input modules.













Line-up includes combined models best suited for application base

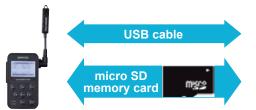
GL100 will feature combo solutions that are packaged together and will be offered as a one stop solution as an out-of-the-box-ready item for the specific application that best fits your need.

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

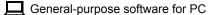


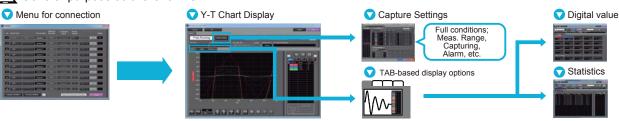


- USB connection is also available through the GL100 with real-time control from the PC software. Historical data can also be viewed by directly accessing the internal memory of the GL100 from the PC software.
- Data stored on the GL100 can be easily transferred to the PC using a microSD memory card 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	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.	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 humidify levels will be vital to keeping food fresh in a controlled environment.	G.I.G G.I 2011
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 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		
Condition	Capturing time	
Built-in memory (Approx. 4.9MB)	Approx. 296 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 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				
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 values			
	Set conditions using the Menu setting			
	While using USB port:			
	Output captured data in real-time			
	Output the saved data from the internal memory			
	Full control of the GL100 from the PC application software			
Display		hrome, 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)			
Power source	Battery (AA x 2)			
		nicro USB connector)		
		er capacity is 5V, 1A when AC adapter for microUSB drive		
	is used. AC adapter is not included.			
Operating environment	Temperature: -10 °C			
		RH (non condensed)		
	Water resistance: IF	÷:		
External dimension	Approx. 66 x 100 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				
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		
Acceleration & Tempe	erature sensor (GS-3AT)		
Type of measurement	Acceleration in 3-axis (X-, Y-, Z-axis), and Temperature		
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 (*1)		
Illuminance & Ultravio	olet sensor (GL-LXUV)		
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/cm²		
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-wi		
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 (*2)		
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 count		
Temperature sensor i	nput terminal (GL-4TSR)		
Number of channel	Sensor 4 channels,		
	Logic or Pulse 4 channels (*2)		
Sensor	Thermistor sensor (optional)		
Measuring range	Temperature: -40 to 120 °C (varies by the type of sensor)		
3 43	Logic (signal pattern): 0 to 24 V (common ground)		
	Pulse (count): Max. 200 counts/sampling interval, accumulating up to 65535 count		
	1 (,		

- *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.