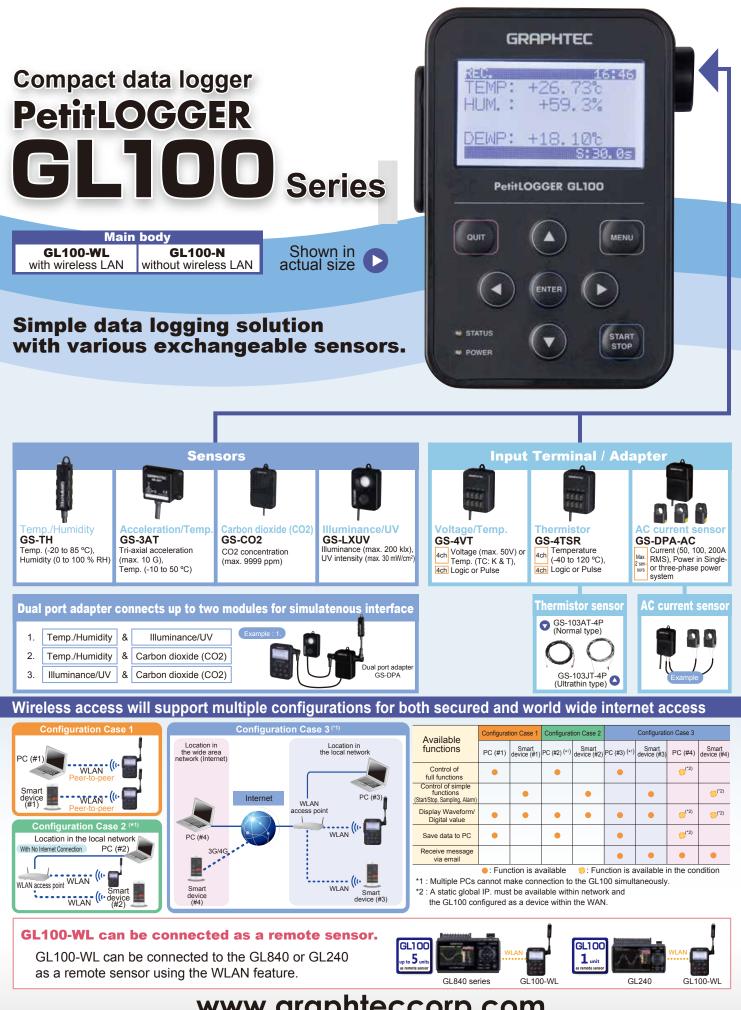
# GRAPHTEC



## www.graphteccorp.com

#### 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 General-purpose software for PC for Smart Device (Android OS/iOS) SDK Taxable P (Software development kit) +27.81 degC can be applied 21.1 % +3.55 degC from Graphtec Web -0.0364 V 21.3 g/m\*3 **Digital Value Screen** Waveform Screen Digital Value Screen Waveform Screen Industry-specific software(for PC) Specific-industry Measurementv capability Description 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. Agriculture 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. Logistics Accumulated temperature monitoring and humidity levels will be vital to keeping food fresh in a controlled environment. 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. AC current Power Integrated power Power measure ment Sufficient capacity for data Available battery option Battery Operating Time Data Capturing Time Condition Example : Condition Example Condition Capturing time Condition Operating time Temp./Humidity sensor (GS-TH), 1 minute sampling interval Temp./Humidity sensor (GS-TH), 1 minute sampling interval, When saving data to the Built-in memory with WLAN disabled Built-in memory (Approx. 4.9MB) Approx. 254 days Approx. 2 weeks micro SD memory card Over 2 years using Alkaline battery (AA size x 2) \* File size for captured data is up to 1.9GB on the micro SD memory card. \* USB power source will be required for Voltage/Temperature (GS-4VT), and CO2 sensor (GS-CO2) of GI 100-WI GI 100-N Temperature & Humidity sensor (GS-TH) Item Description Number of channel emperature, and Humidity Type of measurement Up to 4 channels (varies by the type of input module used, and measurement type is fixed with each input module.) USB 2.0, Wireless LAN (IEEE802.11b) in GL100-WL Accumulated temp. (calculated value), Dew-point temp. (calculated value) Temperature : -20 to 85 °C Measuring range Interface to PC Humidity : 0 to 100 % RH Functions Real-time data capturing · Displays the captured data value to the LCD in real-time and save the monitoring values Acceleration & Temperature sensor (GS-3AT) Set conditions using the Menu setting Tri-axial acceleration (X-, Y-, Z-axis), and Temperature Acceleration : ±2G(20 m/s<sup>2</sup>), ±5G (50 m/s<sup>2</sup>), ±10G (100 m/s<sup>2</sup> Type of measurement While using Wireless LAN Measuring range Output captured data in real-time Temperature : -10 to 50 °C Output the saved data from the internal memory ampling interval 5 to 100 ms in memory mode, 0.5 s to 60 min. in direct mode (\* Full control of the GL100 from the PC application software Send warnings via the e-mail in GL100-WL $^{(\star_1)}$ Voltage & Thermocou ple input terminal (GS-4VT) Number of channel Analog voltage 4 channels Logic or Pulse 4 channels While using USB port Output captured data in real-time Voltage: 20mV to 50V, 1-5V FS Thermocouple : K type (-200 to 1370 °C) & T type (-200 to 400 °C) Measuring range • Output the saved data from the internal memory • Full control of the GL100 from the PC application software Logic (signal pattern): 0 to 24 V (common ground) Pules (count): Max. 200 counts/sampling intervall, accumulating up to 65535 counts Temperature sensor input terminal (GS-4TSR) Display LCD (backlit monochrome, graphical type) Storage device Built-in RAM (Approx. 4.9 MB) Sensor 4 channels, Number of channel micro SD memory card Logic or Pulse 4 channels (\*3) Maximum file size for captured data is 1.9 GB Thermistor sensor (optional) Temperature : -40 to 120 °C (varies by the type of sensor) Sampling interval 0.5 to 30 seconds and 1 to 60 minutes Sensor Alarm (1 channel), Warnings message is sent via the e-mail in GL100-WL (\* • Alkaline battery (AA x 2) Measuring range Output signal Logic (signal pattern) : 0 to 24 V (common ground) Power source Pulse (count) : Max. 200 counts/sampling interval, accumulating up to 65535 counts · 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. Temperature : -10 °C to 50 °C Operating environment Humidity : up to 80% RH (non condensed) Water resistance : IP54 Approx. 66 x 100 x 27 mm (exclude protrusion) External dimension Weight GL100-N : Approx. 125 g, GL100-WL : Approx. 130 g 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 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 Item

For GS-DAP-AC module, Cable 200 mm, Current range : 50 A AC 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 adapte GS-DPA Connect up to two (2) sensors Module Extension Cable GS-EXC Extension cable for input module, 1.5 m long

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 & Ultraviolet sensor (GS-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/cm <sup>2</sup>
AC Current sensor adapter (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)
*1 · A mail server is requ	ired 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	

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.

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

For using equipment in correctly and safely • Before using it, please read the user manual and then please as a property in decentration of the specification. • 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

GL100\_KE10575\_4P

http://www.graphteccorp.com Website