



GL100-WL-CO2-DPA-LXUV

WIRELESS DUAL PORT DATALOGGER WITH CO2 AND LIGHT/UV SENSORS

Datalogger with CO2 and Light/UV sensor. 4.9MB on-board memory, micro-SD memory slot, USB PC interface, LCD display. Solution with GS-CO2 sensor requires the use of the MicroUSB power cable, and is not recommended with the use of the AA batteries.



CARBON DIOXIDE SENSOR, GS-CO2

The compact GL100 datalogger CO2 density sensor designed for industries requiring climate monitoring and control solution such as greenhouse, hydroponics, agriculture and botanical areas where operators need real time environment and climate monitoring. Fine arts museums and galleries are also served for controlled environment settings where the GL100 excels!

ITEM	DESCRIPTION
GS-CO2	CO2 density sensor with a measuring range of 0-9,999ppm concentration.
Sensor Method	NDIR System (non disperv infrared)
Measurement Data	CO2 Concentration
Measurement ch	1ch
Measurement Range	0 to 9,999ppm
Measurement Accuracy	±(5% of rdg + 30ppm) In the range between 0 and 5000ppm
Response Time	3 minutes or less
Sampling Intervals	0.5 1 2 5 10 20 30 sec
	1 2 5 10 20 30 60 min
	CO2 sampling interval is 2 seconds or slower. For sampling selection slower than 2 seconds, same values are recorded and new values are updated every 2 seconds.
Calibration	ON/OFF
Extension Cable	Approx 20cm
Operating Environment	0° to 50°C, 80% RH and below (non-condensed)
External Dimensions	66mm x 100mm x 24.6mm (excludes protrusion)
Weight	99g (3.49 oz)



ILLUMINANCE AND UV SENSOR GL-LXUV

The compact GL100 datalogger illuminance and UV sensor for industries requiring accurate light metering with UV ray strength and accumulated luminance monitoring. This is the perfect hardware application for greenhouse, hydroponics, agriculture and botanical rooms giving maintenance techs real time environment and climate monitoring. Fine arts museums and galleries are also served for controlled environment settings.

ITEM	DESCRIPTION	
GS-LXUV	Luminance (0 lux to 200k lux) andUV rays (0 to 30mW/cm2)	
	Dual sensor module	
Measurement Data	Luminance, UV ray strength, Accumulated Luminance(1) Accumulated UV ray strength(1)	
Measurement ch	Luminance	1ch
	UV Ray	1ch
Measurement Range	Luminance	0 lux to 200k lux
	UV Ray	0 to 30mW/cm2
Measurement Degree of Accuracy	Luminance	±5%
	UV Ray	±5%
Spectrum of Accuracy	Luminance	400 to 750nm (peak 560nm)
	UV Ray	260 to 400nm (peack 370nm)
Measurement Resolution	Luminance	0.1 lux
	UV Ray	0.001mW/cm2
Response Time	Luminance	1ms or less
	UV Ray	1ms or less

Processor Functionality	Luminance	0 to 999,999 klxh
	UV Ray	0 to 999,999W/cm2 (2)
Sampling Intervals	0.5 1 2 5 10 20 30 sec	
	1 2 5 10 20 30 60 min	
Extension Cable	Approx 200mm	
Operating Environment	-10° to 50°C, 80% RH and below (non-condensed)	
External Dimensions	46mm x 66mm x 19mm (excludes protrusion)	
Weight	65g (2.29 oz)	

- (1) Displays accumulated value only during recording
- (2) Accumulated value resets when recording starts or QUIT key is pressed

GL100-WL, GL100-N MAIN UNIT SPECIFICATIONS

ITEM	DESCRIPTION
Number of channels	Varies by the input module used, and measurement type is fixed with each input module
Input method, Type of input terminal	
Output signal	Alarm (1 channel), solid state switch with optical isolation (Optocoupler, Max. load is the 30 V, 50 mA)
Interface to PC	USB (micro USB B type connector), Wireless LAN (WLAN) in GL100-WL
Wireless LAN (in GL100-WL)	Standards: IEEE802.11b, Communication distance: approx. 40 m * It varies by the condition of the LAN. Real-time transfer rate is up to 500ms. The WLAN is able to disable. (It is enabled in the factory default setting)
Storage device	Built-in memory: RAM (Approx. 4.9 MB) External memory: microSD memory card * Maximum file size for captured data is 1.9MB. It is recommended to use the microSD memory card that supports sleep mode. (Example: TS4GUSDHC4, made by Transcend)
Display	LCD (backlit monochrome, graphical type 128 x 64 dots) Contents: Captured data and Setting menu (Stored data is not able to replay. It is able to replay using the PC application software.)
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
	While using Wireless LAN (in GL100-WL): • Output the saved data from the internal memory • Full control of the GL100 from the PC application software • Simple control of the GL100 from the application software of Smart Device • Send warnings via the e-mail
Alarm	• Action Outputs the signal when the measuring data reaches the present conditions of alarm • Source Level of measuring data • Detecting method Condition: Higher or lower (signal is higher or lower than the threshold) Combination: OR
Trigger	• Action Start or stop the recording of captured data by trigger • Source Start trigger: OFF, Level (*), Alarm, or Date Stop trigger: OFF, Level (*), Alarm * Level trigger is available in the analog input of the GS-4VT, GS-4TSR, and GS-3AT module. • Detecting method of the Level (*) Condition: Rising or Falling (signal is passed through the threshold) Combination: OR or AND
Dustproof and waterproof	IP54 compatible (*) * It is effective only in the condition that the input module is set to the GL100 and then the covers of connector and battery are closed. It is recommended to replace the packing of cover in periodically.
Power source	• Alkaline battery (AA size x 2) • USB bus-power (5V, 200 mA) (*) * When AC adapter for USB device is used, the required power capacity is 5V, 1A. Battery and AC adapter is not included.
Operating environment	Temperature: -10 °C to 50 °C Humidity: up to 80 % RH (non condensed)
External dimension [W x D x H]	Approx. 66 x 100 x 27 mm (exclude protrusion)
Weight	GL100-N: Approx. 125 g, GL100-WL: Approx. 130 g

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