

Bluetooth Wireless Datalogger SUNLOG-1B



Features and Specifications

Measurement parameters

Temp / Humidity / Voltage / 4-20mA

Data Collection

Wireless Communication with PC/ Cloud
Mobile App /Data Collectors /Base Station

The SUNLOG-1B Series data loggers are designed to measure and record temperature /humidity /process parameters in volts and mA. Variety of data collection tools are available to enable wireless collection of recorded data. Models without display are available.

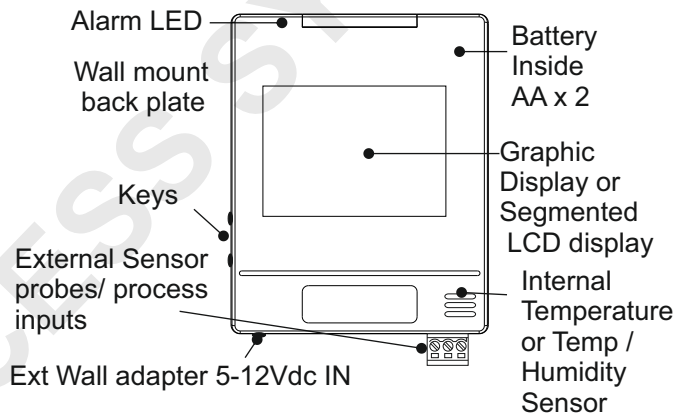
Model	Measurement Items	Measurement Range	Notes
SUNLOG-1B-TI	Temperature 1ch(Internal Sensor)	0 to 70°C	Gradual Response Time.
SUNLOG-1B-THI	Temperature-Ch1 / Humidity Ch-2	0 to 55°C / 10 to 95%RH	Measure Temperature and Humidity
SUNLOG-1B-T1	Temperature 1ch (External Probe)	- 50°C to 155°C	External Sensor for Quicker Response Time / Waterproof / Wide selection of wire length
SUNLOG-1B-TC	Temperature 1ch (Thermocouple)	- 199°C to 1760°C	For use with Thermocouple Sensor Types: K, J, ,R, T, S
SUNLOG-1B-RT	Temperature 1ch (Pt100, Pt1000)	- 199°C to 600°C	Supports 2-wire and 3-wire Sensors High Preci- sion Measurement in Wide Temperature Range
SUNLOG-1B-V	Voltage 1ch	DC 0 to 5Vdc; Resolution 1mV	Scale Conversion; other voltage levels Pre-order
SUNLOG-1B-C	4-20mA 1ch	0 to 20 mA	Operational up to 40 mA / Scale Conversion



Model with Segmented LCD Display (Low power)



Model with Graphic (BIG) LCD Display



Collect Data via Wireless Communication with the Mobile App / PC App / Data collector or Base station

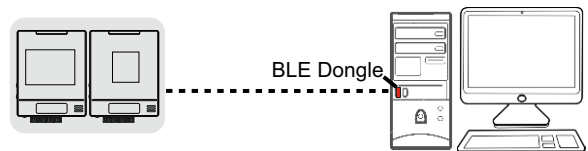
The datalogger have multiple type of data downloading options as described below. By connecting the device with SUN-App the policy can be fixed. For the report generation there are three types of software available. SUN-App is a Android software which allows to download data from single devices and report can be generated singularly. SUN-Desk is PC based software which allows to download data from devices one by one and in this bulk report is possible. SUN-Desk is ideal solution for Validation Mapping type of applications. Option D below is also available if number of devices are more. A SUN-Port Data Collector helps for bulk programming as well as bulk data download. This collected data can be uploaded in SUN-Desk at one go to save time. The SUN-Net is network software which creates a local wifi network or ethernet network where all devices are connected via variety of base stations.

A) Data transfer to Smartphone with SUN-App



SUNLOG-1B Series Loggers

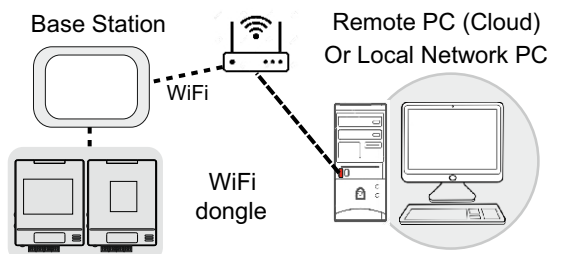
B) Data transfer to SUN-DESK using Bluetooth Dongle



SUNLOG-1B Series Loggers

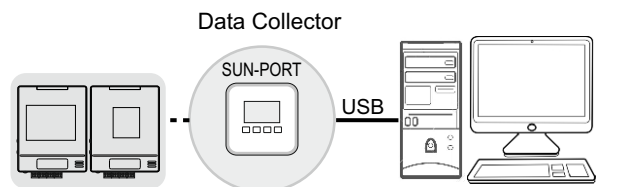
SUN-DESK PC software

C) Data transfer to SUN-NET PC software over Wifi Network



SUNLOG-1B Series Loggers

D) Data transfer to SUN-DESK using Data collector



SUNLOG-1B Series Loggers

SUN-DESK PC software

SUNLOG-1B	-TI	-T1	-THI		-TC	-RT	-V	-C
Measurement Channels	Temperature 1ch	Temperature 1ch	Temperature 1ch	Humidity 1ch	Temperature 1ch	Temperature 1ch	Voltage 1ch	4-20mA 1ch
Sensor	Digital Sensor (Internal)	Thermistor	Digital Sensor (Internal)	Digital Capacitance	Thermocouple: Type K,J,T,S	Pt100, Pt1000 3-Wire(1*)	-	-
Measurement Units	°C, °F	°C, °F	°C, °F	%RH	°C, °F	°C, °F	V,mV	mA
Measurement Range	-20 to 70°C	-50 to 155°C	0 to 55 °C	10 to 95 %RH	K -199 to 1370°C J -199 to 1200°C T -199 to 400°C S -50 to 1760°C	-199 to 600°C	0 to 200mV 0 to 1V 0 to 2V 0 to 5V (Factory Set)	0 to 20mA 4 to 20mA (Factory Set)
Accuracy	Avg.±0.2°C	Avg.±0.2°C at -20 to 80°C Avg.±0.5°C -40 to -20°C 80 to 110°C Avg.±1.0°C at -50 to -40°C 110 to 155°C	Avg.±0.2 °C	±3 %RH at 25 °C, 50%RH	Thermocouple Measurement K, J, T : ± (0.3°C+0.3% of reading) S : ± (1°C+0.3% of reading) Cold Junction Compensation ±0.3°C at 10 to 40°C ±0.5 °C at 40 to 10°C, 40 to 80 °C	± (0.3°C+0.3% of reading) at 10 to 40 °C ± (0.5°C+0.3% of reading) at -40 to 10 °C 40 to 80 °C	± (0.5mV+0.3% of reading) at 10 to 40 °C ± (1mV+0.5% of reading) at -40 to 10 °C 40 to 80 °C	± (0.05mA+0.3% of reading) at 10 to 40 °C ± (0.1mA+0.5% of reading) at -40 to 10 °C 40 to 80 °C
Measurement Resolution	0.01°C	0.01°C	0.01°C	0.1 %RH	K, J, T: 0.1 °C S: 0.2 °C	0.1 °C	200mV: 0.1mV 1V: 0.1mV 2V: 0.1mV 5V: 0.1mV	0.01 mA
Responsiveness	Response Time (90%): Approx. 20sec	Response Time (90%): Approx. 20sec	Response Time (90%): Approx. 20sec		Response Time (90%): Approx. 20sec	Response Time (90%): Approx. 20sec	Response Time (90%): Approx. 20sec	Response Time (90%): Approx. 20sec
Logging Capacity	40,600 readings		30,800 data sets (One data set consists of re- adings for multiple channels)		40,600 readings			
Recording Interval	Select from 15 choices: 1, 5, 10, 30 sec. or 1, 5, 15, 30 min, 1Hr, 2Hr, 6Hr, 12Hr, 24Hr							
Recording Mode (*2)	Endless (Overwrite oldest data when capacity is full) or One Time (Stop recording when capacity is full)							
LED Indicators	Flashing RED LED indicates the alarming condition. Flashing Green LED indicates Logging is ON.							
Display	Two options : Segmented LED (preferable for Long battery life) ; Graphic LCD							
Communication Interfaces	SUN-APP / SUN-Desk software <Between Logger Unit(s) - smartphone / PC / Data collector > Bluetooth 5.0 (BLE) Freq 2.4Ghz , Range: 30m unobstructed; SUN-NET / SUN-Web software <Between Logger Unit(s) - Base station > Bluetooth 5.0 (BLE) Freq 2.4Ghz . Base station connects devices to SUN-NET / SUN-Web software <Between Base Station and Router > 2.4GHz wifi connectivity.							
Data Download	The recorded data can be either directly downloaded to a smartphone or computer,							
Log Start/Stop setting	Start Delay: Settable by software; Start Mode: By button / software; Stop Mode: By button/ Memory full /software							
Power	2 X AA size Battery Replacable or External 5Vdc adapter							
Battery Life (*2)	2 X AA - Approx. 3-6 months. Its back up battery for logging purpose and comes in effect when external power is not present.							
Dimensions	H 102mm x W 82 mm x D 22 mm							
Weight	Approx. 36 g							
Operating Environment	-20 to 80°C during wireless communication							
Waterproof Capacity	IP64: Splash proof (rated for use in daily life) (*3)							

*1: When continually used in environments with temperatures above 60°C, accuracy of humidity measurements will decrease over time. Also, humidity cannot be measured at temperatures below -20°C.

*2: The battery life is based on the following usage conditions: Recording at 5 minutes (or longer) intervals, Current Readings Transmission every 5 minutes, and Recorded Data Transmission once a day. Battery life also varies depending on ambient temperature, radio environment, frequency of communication etc.

*3: This is the waterproof capacity of the data logger with the sensor connected. Note that the temperature-humidity sensor is not water resistant.

SUNSUI
PROCESS SYSTEMS

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