

Bluetooth Wireless Datalogger SUNLOG-4B



Features and Specifications

Measurement parameters

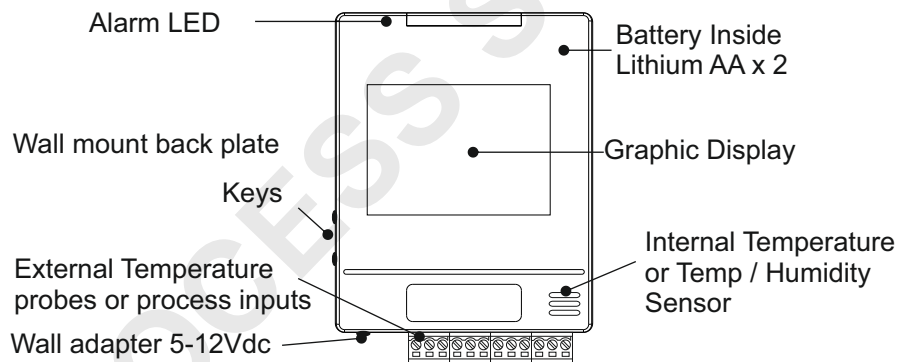
Temp / Humidity / Voltage / 4-20mA

Data Collection

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

The SUNLOG-4B Series includes data loggers designed to measure and record temperature & humidity/ Process parameters in volts and mA. It's a multi channel Datalogger works with variety of data collection tool collection of recorded data. 2 basic variants that is model comes either with or without LCD display.

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



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

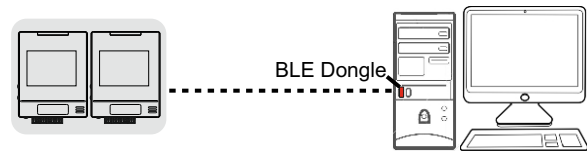
The datalogger have multiple type of data downloading options as described below. By connecting the device with SUN-App the policy can be fixed. For the report generation there are three types of software available. SUN-App is a Android software which allows to download data from single devices and report 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-4B Series Loggers

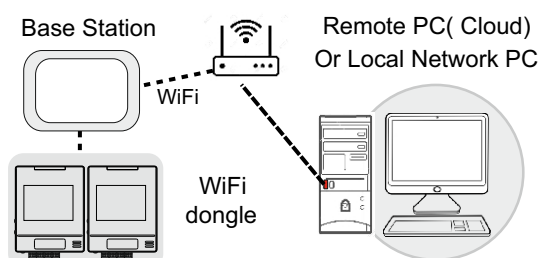
B) Data transfer to SUN-DESK using Bluetooth Dongle



SUNLOG-4B Series Loggers

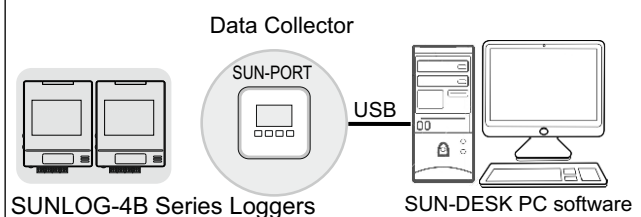
SUN-DESK PC software

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



SUNLOG-4B Series Loggers

D) Data transfer to SUN-DESK using Data collector



SUNLOG-4B Series Loggers

SUN-DESK PC software

SUNLOG-4B	-TI	-TE	-THI		-TC	-RT	-V	-C	-SI
Measurement Channels	Temperature 1 ch	Temperature 4ch	Temperature 1ch	Humidity 1ch	Temperature 4ch	Temperature 4ch	Voltage 4ch	4-20mA 4ch	Serial 2-4ch
Sensor	Digital Sensor (Internal)	Thermistor (External probe)	Digital Sensor (Internal)	Digital Capacitance	Thermocouple: Type K,J,T,S,B	Pt100 2/ 3-Wire	-	-	Modbus RTU
Measurement Units	°C, °F	°C, °F	°C, °F	%RH	°C, °F	°C, °F	V,mV	mA	TBD
Measurement Range	-30 to 70°C	-50 to 150°C	-30 to 70 °C	10 to 95 %RH	K: -195°C to +1350°C J: -100°C to +750°C T: -200°C to +400°C S: 0°C to 1760°C B: 250°C to 1820°C	-200 to +600°C	0 to 200mV 0 to 1/2/5/10V 1 to 5V Scalable to -9999 to +9999	0 to 20mA 4 to 20mA (Factory Set) Scalable to -9999 to +9999	TBD
Accuracy	±0.3°C	±0.3°C	±0.3 °C	±2 %RH at 25 °C, 50%RH (*1)	Thermocouple Measurement Types: K,J,N,R, S,T,E and B ± (0.5°C+0.5% of mV)	PT-100 at 25 °C ± 0.1°C (0 to 60°C) ± 0.2°C(-100 to 200°C) ± 0.5°C(beyond range above)			
Measurement Resolution	0.01°C	-99 to +99°C 0.01°C Beyond range above 0.1°C	0.01°C	0.01 %RH	K, J, T: 0.1 °C S: 1 °C	-99 to +99°C 0.01 °C Beyond above range 0.1 °C	200mV: 0.1mV For 0-1/2/5/10V 0.01V	0.01mA	
Response Time	Approx. 10 sec	Approx: 10sec	Approx. 20sec		Approx. 10sec	Approx. 10sec	Approx. 10sec	Approx. 10sec	
Logging Capacity	16000 readings Optional 40,600 readings		8000 per Channel (Optional 30800 per Ch)		16000 readings (Optional 40,600 readings)				
No of Channels	2 Channel / 4 Channels - As per Pre-order								
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.								
Display	Graphic Monochrome Liquid Crystal Display size 54 x32 mm with resolution 128 x 64; Backlit controllable in sleep mode								
Communication Interfaces	SUN-NET / SUN-Web software - <Between Logger Unit(s) - Wifi router > Wifi Freq. Range: 2.4GHz; Choose SUN-4 Model with Wifi port. SUN-NET / SUN-WEB software <Between Logger Unit(s) - Ethernet router > Ethernet 10/100M port; Choose SUN-4 with Ethernet port SUN-APP / SUN-Desk software <Between Logger Unit(s) - smartphone / PC / Data collector > Bluetooth 5.0 (BLE) Freq 2.4Ghz , Range: 30m unobstructed; Choose SUN-4 with Bluetooth interface SUN-Web software <Between Logger Unit(s) - Remote server > GPRS 2G network , Choose model with GPRS connectivity. NO software <Between Logger Unit(s) - Email / phone SMS > GPRS 2G network , Choose model with GPRS connectivity.								
Data Download	The recorded data can be either directly downloaded to a smartphone or computer, or automatically uploaded to the local server or cloud server via wireless LAN or through the Ethernet. The MQTT publish service is available to work with third party server.								
Log Start/Stop setting	Start Delay: Default 0mins & 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 @1A adapter.								
Battery Life (*2)	2 X AA - Approx. 6 months. Its back up battery for logging purpose and comes in effect when external power is Off.								
Dimensions	H 102mm x W 82 mm x D 22 mm								
Weight	Approx. 40 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.

The specifications listed above are subject to change without notice.



SUNSUI PROCESS SYSTEM, INDIA
(ISO 9001:2015, ISO 14001-2015 Certified Company)

📍 Ashwamedh Commercias, 1st Floor, Mumbai-Bangalore Highway, Baner, Pune-411045, Maharashtra, India.

☎ +91 9284136565 / +91 8788325368 / +91 9545521323 ✉ sales@sunsuiprocess.com / sunsuiprocess@gmail.com

🌐 www.sunsuiprocess.com / www.dataloggersindia.in / www.dataloggers.co.in