Wireless Datalogger
SUNLOG-4W

Features and Specifications

Measurement parameters

Temp / Humidity / Voltage / 4-20mA

Data Collection

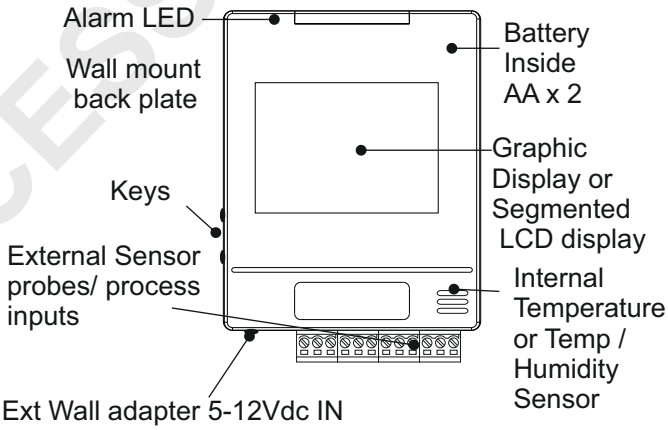
Wireless Communication with PC / Remote PC (Cloud database)

The SUNLOG-4W Series includes data loggers designed to measure and record temperature,humidity, process parameters in volts and mA. As the device is connectable to Wifi the data storing is done either on PC or cloud database. Two basic variants are available that is with or without LCD display.

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

Model with Segmented LCD Display (Low power)

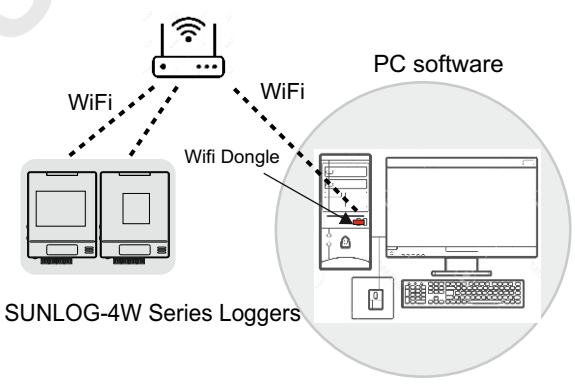
Model with Graphic (BIG) LCD Display



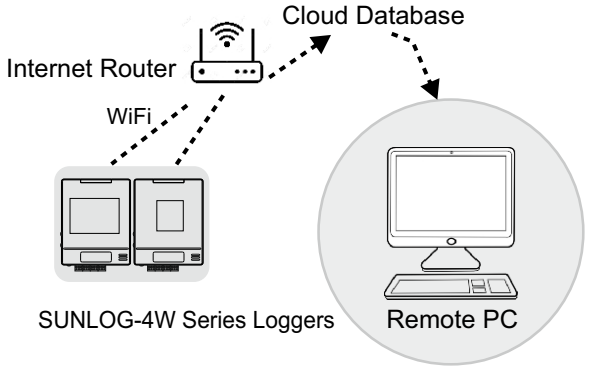
Collect Data via Wireless Communication with the Local PC in Network or Remote Cloud server

The datalogger have Wifi connectivity that can be fixed with mobile App. Once set the device will communicates with PC or Cloud. Once fixed this property as " Network connected " the logger communicates with router to upload this data to Local server or cloud server. The Unit transfer the current value and recorded data to PC database over local network or Cloud database through remote IP with internet connectivity.

Data transfer to PC over Local Wifi Network



Data transfer to Remote PC (server) over Wifi Network



SUNLOG-4W	-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-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 for Logging and EXTERNAL 5VDC @1A for WIFI.
Battery Life (*2)	2 X AA - Approx. 6 months. Its back up battery for logging purpose and comes in effect when external power isn Off. WIFI communication stops when external power is absent.
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 specifcations listed above are subject to change without notice.

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