

Wireless Temperature Sensor

The Wireless Temperature Sensor outputs the ambient temperature in degrees Celsius or Fahrenheit. It is programmed to sleep for a user-given time interval and then wakeup, measure the new temperature value of the sensor's probes and transmit the data to the gateway.

Two temperature probes' types are available :

- DS18B20 (-55°C - +125°C) numeric temperature sensor
- PT100 (-200°C - +850°C) analog temperature sensor

1, 2 or 4 temperature sensor probes can be used on a same wireless temperature sensor. The cable length : 0, 1, 2 or 5 meters.

RF Communication: 915, 868 or 433 MHz are available.

Over the air updates are possible.

RF data is encrypted.

We use an improved power management mechanism for longer battery life (10+ years on AA Lithium batteries).

Additional Water detection / Pulse counter additional input is available as an option.

- Wireless Range: From 80 m to more than 15 km outdoor (LORA). This range may vary according to environmental variables. (Through walls, ceilings and floors)

- Battery Life (at 1 hour heartbeat setting):

½ AA battery > 2-3 years.

AA battery > 4-8 years

Wifi > Up to 5 years

2 x AA Lithium batteries > 10+ years

Battery life is determined by sensor reporting frequency and other variables



**Wireless
Multisensors**



**Signal Repeater
(option)**



**Wireless
Gateway**



**Web interface
SMS / email alerts**

Technical Specifications

| | |
|-------------------------|---|
| Current Consumption | 0.7 μ A (sleep mode) 2 mA (measurement mode) 12 mA (radio Receiver mode) 20-120 mA (radio Transmitter mode) |
| Temperature probe range | -40°C to +125°C (DS18B20) -200°C to +850°C (PT100) |
| Accuracy @ 25°C | +/- 0.25° C |
| Wireless Range | From 80 m to more than 15 km outdoor (LORA). This range may vary according to environmental variables. (Through walls, ceilings and floors) |
| Receiver sensitivity | -148 dBm |
| Antenna | Connector SMA |
| Power Supply | 3.0 - 3.6 VDC battery (AAA, ½ AA, AA Alkaline or Lithium) |
| Enclosure | ABS plastic IP65 |
| Dimensions | 76 (102) x 70 x 38 mm |
| Weight | 110 g |
| Operating Temperature | -10 to +70 °C |

Power Options

Several replaceable battery types can be used : AAA, ½ AA, AA for Alkaline or Lithium one or two batteries. The batteries capacity will impact the sensor's life duration. A line-power version with battery backup is also available - allowing it to be powered by a standard AC power supply and use the internal batteries if there is a power interruption.

Power options must be selected at time of purchase.

Solar option is available.



Antenna Options

Internal, external or external long antennas are available.

www.Surveillance-Temperature.com

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Technical Specifications Wifi

| | |
|--------------------------|--|
| Current Consumption | 10 μ A (sleep mode) 2 mA (measurement mode) 50 mA (radio Receiver mode) 140 mA (radio Transmitter mode) |
| Networking Standards | IEEE 802.11 b/g |
| Frequency Band | 2.412 - 2.484 GHz |
| Wi-Fi Security Standards | WEP, WPA, WPA2, TKIP, AES |
| Network Settings | Auto DHCP/DNS or Static |
| Wi-Fi Data Rate | Auto configures to best rate for maximum range |
| Temperature probe range | -40°C to +125°C (DS18B20) -200°C to +850°C (PT100) |
| Accuracy @ 25°C | +/- 0.25° C |
| Wireless Range | Approximatly 30 m. This range may vary according to environmental variables (walls, ceilings and floors). |
| Antenna | Connector: SMA |
| Power Supply | 3.0 - 3.6 VDC battery (AAA, ½ AA, AA Alkaline or Lithium) |
| Enclosure | ABS plastic IP65 |
| Dimensions | 76 (102) x 70 x 38 mm |
| Weight | 110 g |
| Operating Temperature | -10 to +70 °C |

Industrial Grade Options

Industrial sensors are enclosed in reliable, weatherproof IP / NEMA rated enclosures for both indoor or outdoor use and protect the sensor circuitry against the ingress of solid foreign objects like dust as well as the damaging effects of water (rain, sleet, snow, splashing water, and hose directed water) and wind-blown dust.

- Safe from falling dirt.
- Increased level of corrosion resistance.
- Will remain undamaged by ice formation on the enclosure



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