

WiFi Temperature Sensor with Display – 3020-01



**MEETS AND EXCEEDS the CDC's
Vaccine for Children temperature
monitoring guidelines.**

FEATURES

- Multifunction Display
- Compatible with Point View and AmegaView software platforms
- Single or Dual Temperature Inputs
- Convenient Mounting Bracket
- Audible and Visual local alarms
- Multi-year, user replaceable batteries
- Can be externally powered
- Supports -40°C, -80°C and -200°C temperature sensors
- Temperatures sampled every 15 seconds
- Stores weeks of data in memory
- Works with industry standard access points
- FCC, CE and IC Class B compliant
- Connectivity options include: XML, OPC, MS SQL, BacNet, ModBus and UDP

DESCRIPTION

The WiFi Temperature Sensor is a battery operated digital temperature sensor with a microprocessor controlled 802.11b/g radio transceiver. The sensor has an on board clock that allows it to spend most of the time in a low power quiescent state. Onboard calibration tables provide a linear temperature output. This information is combined with a CRC-16 error check and transmitted in a very short data packet that results in a very short transmitter on-time. This architecture allows the WiFi Temperature Sensor to consume very low energy.

Upon power up the sensor scans all available WiFi network channels (typically 1, 6, and 11) and associates with the Access Point exhibiting the strongest signal, provided the correct security and encryption setting agree. This feature can also be disabled to allow the user to operate the sensor on a fixed channel.

The WiFi Temperature Sensor also has onboard memory allowing it to function as a data logger. The sensor has programmable log rates ranging from 2 to 60 minutes. The sensor can store up to 3,072 data and/or event records.

Alarm limits for temperature and time span are user selectable through an easy to use utility and can be configured wirelessly. An LED is included on the sensor to indicate an alarm condition. In addition to the LED for visual alarm indication, an audible alert is included to alert the user to an alarm condition when the sensor is not in the line of sight. The audible alarm can be silenced by depressing the service button on the face of the enclosure. The alarm utility includes a "Return-to-Normal" transmission state so the user can tell the exact duration of the alarm.



Installation and Operation Instructions

SPECIFICATIONS

Parameter	Standard RTD
Measuring Current	300 micro Amp. @ 2% duty cycle
RTD Power on Duty Cycle	2%
Resolution	.1° C
Transmission rate	User Programmable
Log rate	User Programmable
Battery Life	Up to 236,820 Transmissions
Dimensions (enclosure)	4.25" x 4.25" x 1.485"
Weight	10 oz.
Storage Temperature	-40° to 60° C
Battery	3.6 v Lithium Thionyl Chloride (3)

WiFi TEMPERATURE TRANSMITTER

The WiFi Temperature Sensor transmits a temperature and a unique serial number to a WiFi Access Point. It is enclosed in a high impact ABS enclosure for direct surface mounting in the environment to be measured.

Start/Stop Function: The sensor is started when the On/Off switch is moved to the ON position. The Sensor has surface push-button (Service Switch) that can be activated to send "service" packets. Momentarily activating this button will cause the device to transmit a special installation status mark in the data packet immediately after the button is released. The immediate transmission of temperature, ID, and installation status mark will occur anytime the service switch is activated.

Battery: Three 3.6 Volt lithium Thionyl chloride batteries power the wireless temperature sensor. The device will transmit data for as long as 4 years.



Mounting bracket included.

This device contains transmitter module
 FCC ID: U30-G2M5477
 IC: 8169A-G2M5477
 US Patent: 6721546 B1

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES, OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
 (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESERED OPERATION

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.