

TempTrak[®] Wi-Fi (802.11 b/g/n) Transmitters

Enterprise Wireless Monitoring



#11078



#11079



#11089



#11109

TempTrak[™] Wi-Fi transmitters are high speed wireless modules with PEAPv0 enterprise security, capable of collecting, storing and transmitting data wirelessly over a standard 802.11 b/g/n (Wi-Fi – RF Frequency 2.4 to 2.497 GHz) with UDP protocol. The transmitter passes information to the TempTrak[™] application which can be located on any Wi-Fi-enabled network. Each transmitter monitors against preset conditions that are defined by the user and can provide audio and visual alerts. Additional alerts can be provided through a variety of methods such as pager, cellphone, and e-mail. Information recorded (in °F and °C) to the database is time-stamped and cannot be altered through the user interface. All transmitters can be configured for Wi-Fi and server networks as well as sample transmit intervals. The transmitter will connect to a Wi-Fi IP network and send data to the designated server. Both Wi-Fi (802.11 b/g/n) and 900 MHz TempTrak[™] transmitters can communicate within a single TempTrak[™] installation. *On-site NIST traceability available.

Security Support

Our new Wi-Fi transmitters support the following security modes: WEP, WPA-PSK, WPA2-PSK, WPA2-Enterprise with PEAPv0 and EAP-MSCHAPv2. PEAPv0 is the ultimate in wireless security, protecting customers' data transferred between clients and servers, preventing unwanted access to secured networks even if the threat is posing as a transmitter. PEAPv0 with EAP-MSCHAPv2 is the most common form of PEAP in use and one of the most widely supported EAP standards in the world. PEAP reduces the number of SSIDs required because the transmitters can reside on a PEAP network normally reserved for internal data transfer.

- #11078 Dual External Temperature Transmitter
- #11079 Internal Temperature/ Humidity Transmitter
- #11089 Analog Transmitter
- #11109 Contact Transmitter

Features

- Connects to existing Wi-Fi IP network
- Speed: Wi-Fi 802.11 b/g/n 72 Mbit/sec
- Enterprise Security: PEAPv0 with EAP-MSCHAPv2 (PEAP)
- Radio Protocol: IEEE 802.11 b/g/n compatible
- RF Frequency: 2.4 to 2.497 GHz
- Operating Environment: 0° to 140°F (-17° to 60°C), up to 95% RH
- Battery: (2) 3.6V AA Lithium (included)
- Battery Life: 14-15 months (based upon a 15 minute transmit and sample cycle and good signal)
- External power supply (Micro-USB) with battery backup
- On-transmitter buffer storage size of 4,096 samples
- Visual and audio alarm indicators - can be manually cleared with reset feature
- ABS plastic enclosure
- Wall-mounting: DualLock[™] tape or screw-mount
- One year warranty
- Certifications: FCC, CE, IC, and RoHS compliant



Benefits

- Utilizes infrastructure already in facility
- Optimized for network speed
- Higher security network protects real-time data traffic
- Industry standard RF frequency
- Can be placed in a variety of environments
- Common battery size
- Less frequent battery replacements
- Reconfigure Wi-Fi transmitters over the air
- Reduces maintenance
- Ensures continuous data collection in the event of network outage
- Ensures no alerts go unanswered
- Durable casing protects inner circuitry
- Ensures secure mounting for different equipment

#11089 Analog Transmitter

- Supports two external instruments via terminal blocks
- Works in conjunction with a digital output device
- Current: 0 to 20 milliamp
- 0 to 10 volts

#11109 Contact Transmitter

- Reed Switch activates with magnet
- Terminal block allows for remote signal activation

Transmitter Dimensions:

4.25" x 2.5" x 1.125" (108mm x 64mm x 29mm)

Specifications

#11078 Dual External Temperature Transmitter

- Supports up to two external temperature probes
- Temperature Range: -328° to 572°F (-200° to 300°C)
- Accuracy: $\pm 1^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$)

#11079 Internal Temperature/Humidity Transmitter

- Supports one internal temperature sensor and one internal relative humidity sensor
- Temperature Range: -4° to 140°F (-20° to 60°C)
- Accuracy: $\pm 0.7^\circ\text{F}$ ($\pm 0.4^\circ\text{C}$)
- Relative Humidity Range: 0 to 95%
- Relative Humidity Accuracy: $\pm 3\%$