

Wireless temperature sensor

Narrow-Band wireless IOT

Main features

- Narrow band/Low Power
- Battery powered
- Real time monitoring
- 24/7 location tracking supervision
- Configurable internal data logger of offline tracking

Applications:

- Facility management
- Agriculture
- Logistics
- Smart City
- Environment measurements, alarms and monitoring

The PowerTags wireless sensor uses the narrow band 915Mhz technology proving long range and years lasting batteries provides real-time and offline supervision and monitoring of environment conditions.

The tags typically provide temperature or Humidity monitoring but can accommodate very large variety of other environmental sensors.

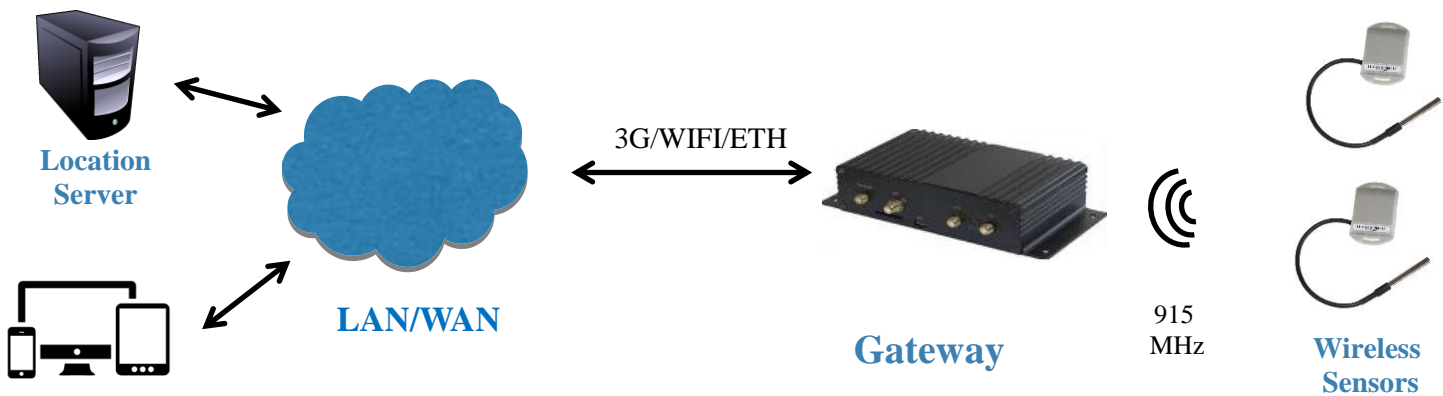
The sensor data can be monitored using PowerTags software or other via API and enables real-time notification of warnings with the sensor's status to a variety of media's that includes computer stations, mobile devices via audible alarm, email or SMS.

The data is also analyzed using our rule engine to provide real time notification of abnormalities and long term trends analytics statistics and reports.

The wireless sensor is part of PowerTags' portfolio offering that also includes, readers, gateways and management system, location tracking, controllers, sensors and more



System overview:



Web Clients

Product specifications:

| | Parameter | Remarks |
|--------------------------------|--------------------------|---|
| Communication | | |
| Transmit | | |
| Range | More than 500 m | Outdoors LOS |
| UHF Frequency | ISM 915 MHz band | Frequency can be recalibrated between 720-970Mhz |
| Output power | 5/8/12 dbm | Default value 5 dBm |
| Data rates | FSK, 9.6 Kbps | Narrow Band |
| Power | | |
| Power source | Lithium coin Battery | Battery CR2477 950 mAh |
| Supply voltage | 1.9 V up to 3.6 V | |
| power down current | < 1 μ A | Most of the time the end node is in power down to save battery live |
| Battery lifespan | up to 4 Years | With 120 seconds transmit interval |
| Physical | | |
| Weight | 23g | |
| Size | Case Probe | 64x38x16 mm 1 meter(default length) 2 meters or more are available |
| Operating temperature tag case | -40 to +85 $^{\circ}$ C | |
| Operating temperature probe | -55 to +125 $^{\circ}$ C | At temperature range -10 $^{\circ}$ C to +85 $^{\circ}$ C accuracy +-0.5 C Bellow -10 $^{\circ}$ and above +85 $^{\circ}$ C temperature accuracy +-2 C |