

Wireless Humidity & Temperature sensor

Narrow-Band wireless IOT

Main features

- Narrow Band RF
- 24/7 Monitoring & supervision
- Long Battery lifespan
- Up to 100 meters detection range with location tracking
- Up to 500 meters detection range narrow band configuration

Applications:

- Environment sensing
- Coolers
- Room and Outdoor monitoring
- HVAC
- Storage conditions of food and medicine
- Alarms and monitoring residents

The PowerTags wireless sensor uses the narrow band Sub 1-Ghz technology proving long range and years lasting batteries provides real-time supervision and monitoring humidity and temperature around the device's probe

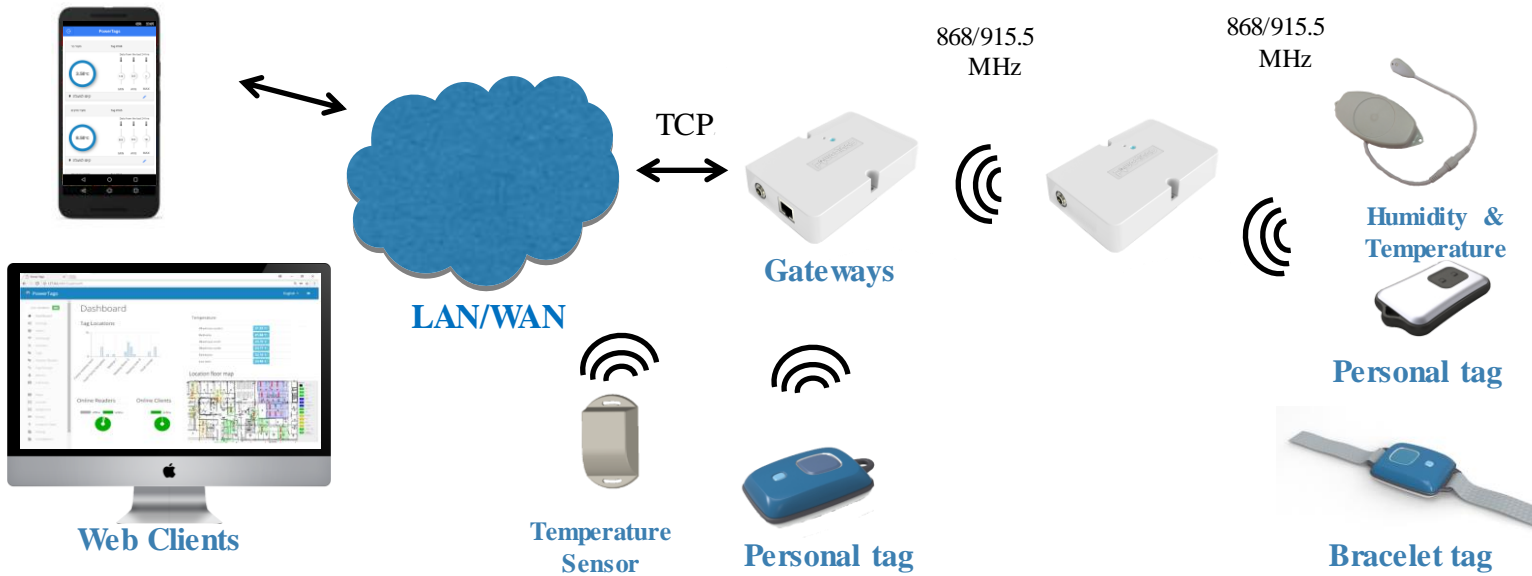


The sensor data can be monitored using PowerTags software or other via API and enables real-time notification of warnings with the sensor's status to a variety of media's that includes computer stations, mobile devices via audible alarm, email or SMS.

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

PowerTags system's overview:



Product specifications:

- RF technology..... Narrow-Band RFID
- IP Rating wireless sensor IP 66 water resistance
- Probe has no water resistance

- Battery type..... Tadiran 1/2AA 1.2mAh 3.6V
- Battery average life is between 3-4 Years (with 10 minutes interval)
- *(according to usage interval)
- Standby Current – 0.04uA
- Weight..... 40 grams
- Transmission Central Frequency.....868 MHz(Europe) CE/ 915.5 (FCC/IC/Israel)
- Hardware support Frequency.....720-970 MHz
- Transmission output power/ E.I.R.P1 Milliwatt (0 dBm)
- Transmission output power can be configured in production from -30dBm to 12dBm (different range detection up to 100 meters default and up to 500 with narrow band configurations)

Sensor datasheet:

Accuracy	humidity +-2%RH(Max +-5%RH); temperature +-0.2Celsius
Resolution or sensitivity	humidity 0.1%RH; temperature 0.1Celsius humidity
Repeatability	
Humidity hysteresis	+/-0.3%RH
Long-term Stability	+/-0.5%RH/year
Sensing period Average	2s
Measuring range	humidity 0-100%RH; temperature -40~125Celsius

Operating and storage conditions:

We don't recommend the applying RH-range beyond the range stated in this specification
 (1) Can recover after working in non-normal operating condition to calibrated status but will accelerate sensors' aging.

- (2) Attention to chemical materials Vapor from chemical materials may interfere DHT22's sensitive-elements and debase DHT22's sensitivity.
- (3) Disposal when (1) & (2) happens Step one: Keep the DHT22 sensor at condition of Temperature 50~60Celsius, humidity 70%RH for 5 hours.
- (4) temperature's affection Relative humidity strongly depend on temperature, that is why we use temperature compensation technology to ensure accurate measurement of RH. But it's still be much better to keep the sensor at same temperature when sensing.
- (5) Attention to light Long-time exposure to strong light and ultraviolet may debase DHT22's performance.
- (6) Temperature Sensor data requires Calibration

Complies with FCC/ CE/ IC regulatory standards:

- Tag FCC ID: 2AEXTTAGS3V04V0
- Tag IC ID: 21825-TAG3V04V0
- REPATER/GATEWAY FCC/IC: 2AEXTPOWER TAGS