

PTSPS111 Wireless Temperature Sensor (Battery)

Data Sheet



Product Overview

The PtsenR PTSPS111 Wireless Temperature Sensor is developed by our PT for the locations require to know the current temperature and humidity report in real-time, such as electrical cabinet, electrical box, monitoring room, stockroom, sus-station, transformer, storage area, data center, busduct, switchgear and etc. The PtsenR solves many issues, including high wiring cost, difficult wiring, inspection need and etc. With the sensor, current temperature and humidity can be transmitted through SUB-G wireless communication to monitoring terminal or background for checking at any time.

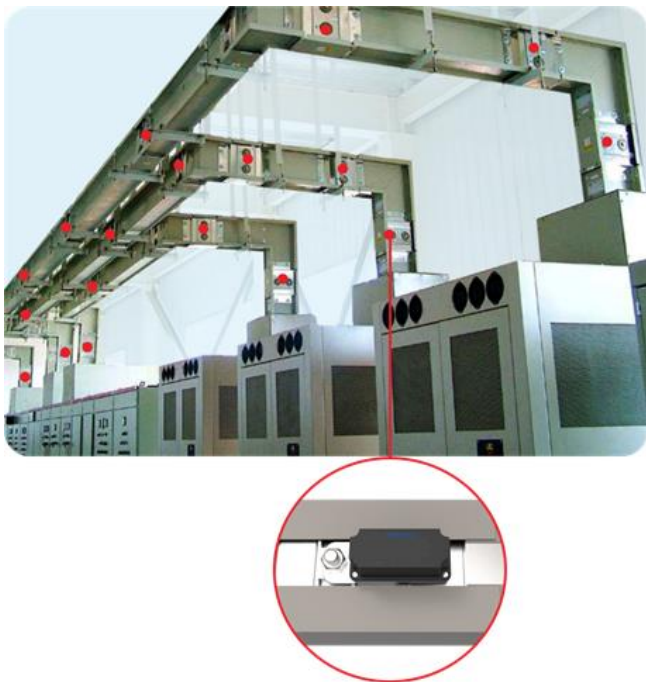


Lug type

Magnetic Type

PTSPS114 adopts the design of ultra-low power Zigbee Green Protocol design, RF communication and data verification technologies. Its advantages include easy installation, strong anti-interference ability and reliable performance. It can transmit collected real-time temperature and humidity data through radio waves to the host and achieve uninterrupted and accurate measurement in this way.

The System Architecture



Application

- HT Electrical cabinet
- LT Electrical cabinet
- Transformer
- Storage Area
- Data Center
- Cold-storage
- Switchgear
- Busduct

Dimensions

Specification

| | |
|--------------------------------|---|
| Power Supply Input | 3.6V (14250) (High-capacity Li/SOC12) |
| Operational Voltage | 2.2V ~ 3.6V (DC) |
| Transmitting Current | <15mA |
| Standby Current | <3.0μA |
| Wireless Operating Bandwidth | 433MHz (Zigbee) |
| Transmission Power | 10dBm |
| Wireless Transmission Distance | 0 ~ 20 meter (enclosed) / 150meter (open space) |
| Communication rate | 10 kbps |
| Temperature measurement type | Direct Contact-type |
| Relative Humidity (RH) | ≤95%RH (non-condensing) |
| Storage Temperature | -40°C ~ 85°C |
| Operating Temperature | -40°C ~ 85°C |
| Temperature measuring range | -40 ~ 125°C |
| Measurement accuracy | ±1.5°C, ±4%RH(<80%RH); ±8%RH(≥80%RH) |
| Measurement interval | 10 sec |
| Transmission interval | 30 to 300 seconds, the higher the temperature of the sudden change, the shorter the transmission interval |
| Protection level (IP) | IP20 |
| Flame retardant grade | V0 (700°C 30 Sec) |
| Service life | 5 ~ 10 years |
| Battery Service Life | 3~5 years (depend on transmission frequency) |
| Installation Mode | Tied / AB glue / Foamed glue / Magnet |
| Certification | CE – EN 61000-6-2:2005+AC; 2014/35/EU LOW VOLTAGE DIRECTIVE; 2014/30/EU ELECTROMAGNETIC COMPABILITY DIRECTIVE |
| | EN 61000-6-4:2007+A1:2011; EN 62366-1:2014+A11:2017 |

Ordering Information

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|-------------|---|
| Part Number | Product Description |
| PTSPS068 | PTSenR Wireless Temperature & Humidity Sensor |



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