

### Product Overview

The PTSenR PTSPS114 Wireless Temperature and Humidity Sensor, designed by our team at Power Technologies, is ideal for locations where real-time monitoring of temperature and humidity is crucial. This includes areas such as electrical cabinets, boxes, monitoring rooms, stockrooms, sub-stations, transformers, storage areas, data centers, busducts, switchgears, and more. Our sensor addresses various challenges, including high wiring costs, complicated wiring procedures, and the need for frequent inspections. Through SUB-G wireless communication, the PTSenR enables the seamless transmission of current temperature and humidity data to monitoring terminals or background systems, allowing for convenient and timely checks.



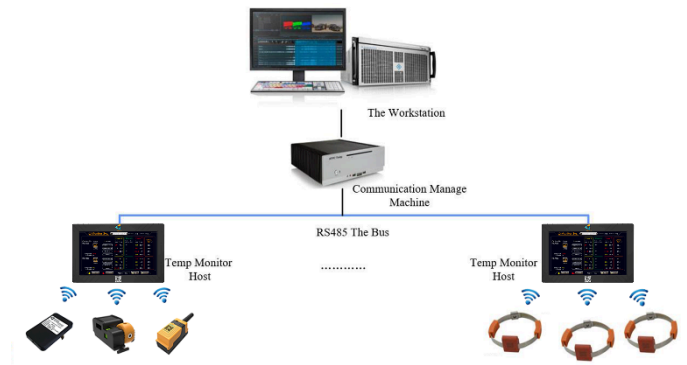
DC operated



Battery operated

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/SOCI2)
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



# PTSPS114 Wireless Temperature and Humidity Sensor

## Data Sheet



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; EN 61000-6-4:2007+A1:2011; EN 62366-1:2014+A11:2017

### Ordering Information

Part Number	Product Description
PTSPS068	PTSenR Wireless Temperature & Humidity Sensor

