

PTSPS068 Wireless Temperature and Humidity Sensor

Data Sheet

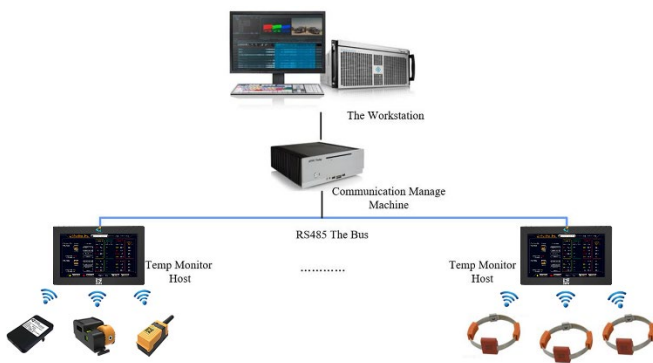


Product Overview

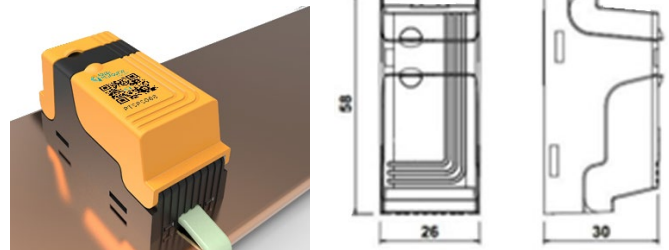
The PTSenR PTSPS068 Wireless Temperature and Humidity Sensor is developed by our PT for the locations requiring real-time temperature and humidity report, such as electrical cabinet, electrical box, monitoring room, stockroom, transformer, storage area, data center, busduct, switchgear and etc. The PTSenR 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.

PTSPS068 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



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 / 2.4GHz (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 COMPATIBILITY DIRECTIVE 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

Application

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

