

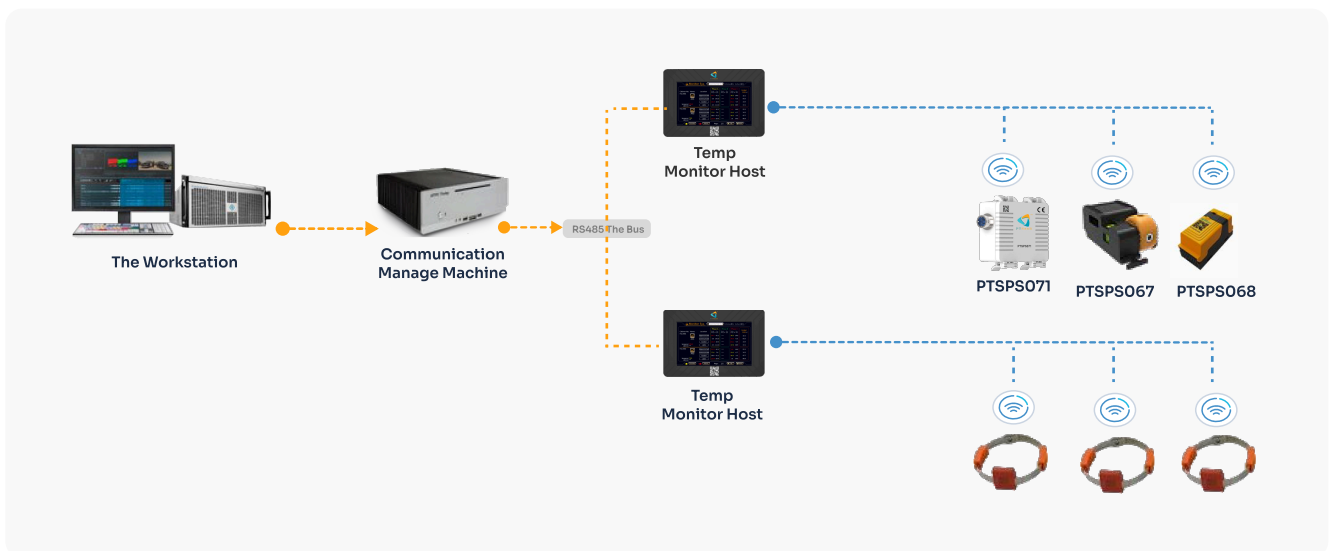
# PTSPS068 Wireless Temperature and Humidity Sensor

## Product Overview

The PTSenR™ PTSPS068 Wireless Temperature and Humidity Sensor is developed 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 sensor 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 Wireless 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.

## System Architecture

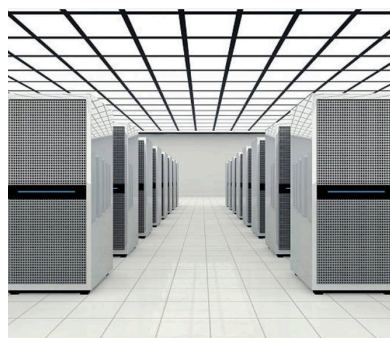


## Applications

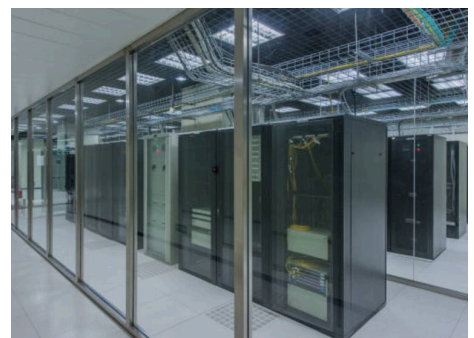
HT/LT Electrical Cabinet



Data Center



Cold Storage



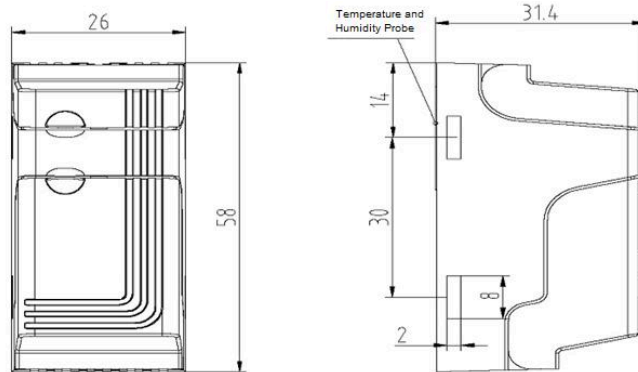
## Characteristics

The PTSPS068 wireless temperature and humidity sensor is a maintenance-free device designed for long-term monitoring. It offers accurate temperature and humidity measurements, with adaptive transmission intervals to prioritize reporting sudden changes. The sensor operates on a long-life battery and communicates wirelessly over a significant range. It is environmentally robust, meeting industry standards for protection and safety, making it suitable for various applications. The sensor is also compliant with relevant regulations for safe and reliable operation.



## Dimensions

(Unit: mm)



## Specifications

Power Supply Input	3.6 V (14250) (High-capacity Li / SOCl <sub>2</sub> )	Transmission interval	30 seconds to 300 seconds, the higher the temperature of the sudden change, the shorter the transmission interval
Operational Voltage	2.2 V ~ 3.6 V (DC)	Protection level	IP 20
Transmitting Current	< 15 mA	Flammability Rating	V 0 (700°C 30 seconds)
Standby Current	< 3.0 μA	Installation Mode	Stripe / AB glue / Foamed glue
Wireless Operating Bandwidth	433.92 MHz / 2.4 GHz	Compliance	EN 62479; EN 61326; EN 300 301 440 220 489; DNVGL-CG-0339
Transmission Power	10 dBm	<b>Ordering Information</b>	
Wireless Transmission Distance	0 ~ 20 meters (enclosed) / 150 meters (open space)	Part Number	Product Description
Communication rate	10 kbps	PTSPS068	PTSenR™ Wireless Temperature & Humidity
Temperature measurement type	Environmental		
Relative Humidity	≤95% RH (non-condensing)		
Storage Temperature	-40°C ~ 85°C		
Operating Temperature	-40°C ~ 85°C		
Temperature measuring range	-40°C ~ 125°C		
Measurement accuracy	±1.5°C, ±4% RH (<80% RH); ±8% RH (≥80% RH)		
Measurement interval	-10 seconds		