

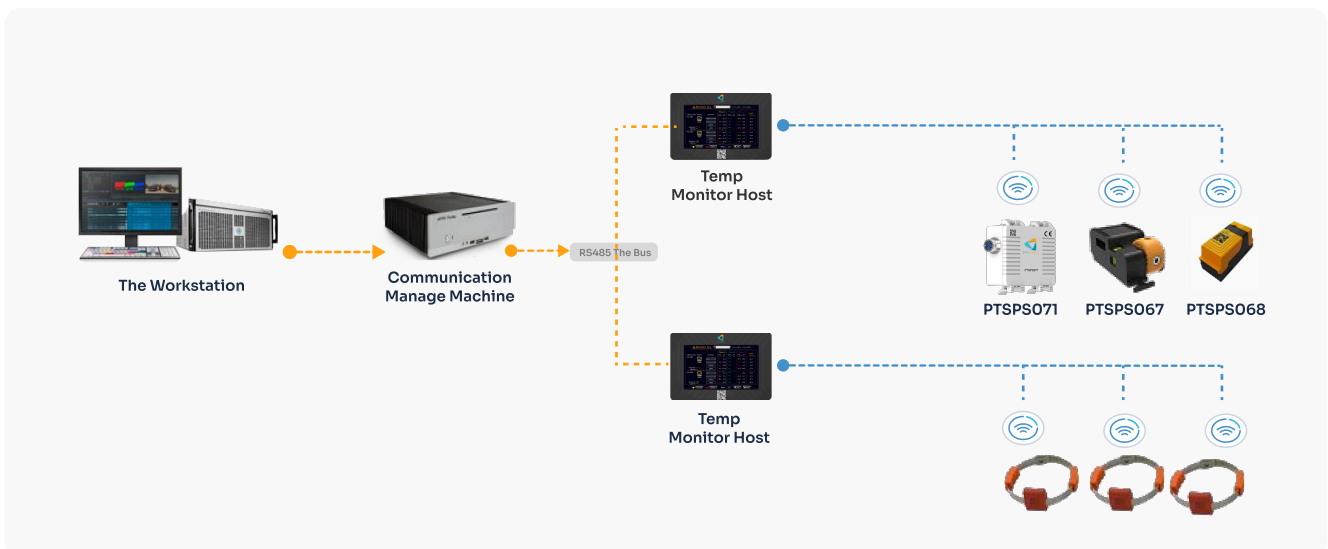
PTSPS067 Wireless Infrared Temperature Sensor

Product Overview

The PTSenR™ PTSPS067 is an intelligent infrared temperature sensor system designed to proactively safeguard low-voltage electrical systems from potential failures. By continuously monitoring the temperature of electrical contacts, it identifies and addresses anomalies caused by factors such as oxidation, corrosion, and loose connections. This proactive approach prevents overheating, electrical corrosion, short circuits, and the resulting power outages, thus enhancing the reliability and stability of the power grid.

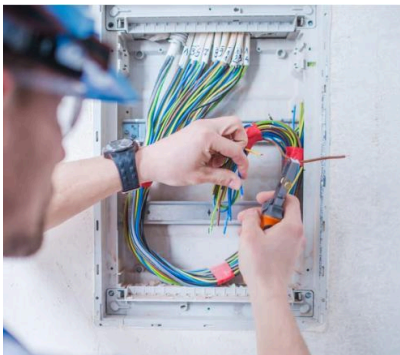
The system's advanced features include industrial-grade array sensors for precise temperature measurement, a cutting-edge wireless communication chip for seamless data transmission and integration with power management systems, and a rotating infrared probe to maximize coverage and accuracy within complex electrical enclosures. The PTSPS067 is an essential tool for maintaining the safe and efficient operation of electrical infrastructure and contributing to the development of a robust smart grid.

System Architecture



Applications

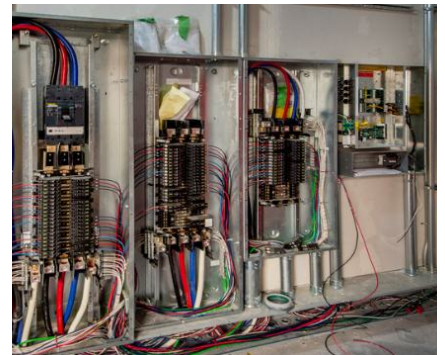
3D measurement with no dead single



Wireless data transmission, more intelligent



Multi-points measurement by single sensor low cost



Characteristics

The PTSPS067 boasts unique features such as planar thermal imaging for simultaneous multi-point temperature assessment, a user-friendly interface for seamless operation and data interpretation, and compatibility with various industrial protocols for effortless integration into existing systems.

Additionally, the system is designed for durability and longevity, with rugged construction and advanced self-diagnostic capabilities to ensure reliable performance even in harsh environments. Its adaptability, ease of use, and robust design make the PTSPS067 a comprehensive and indispensable solution for electrical temperature monitoring and preventive maintenance.



Related Products

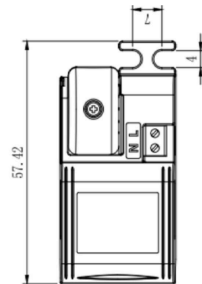
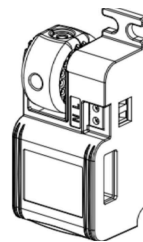
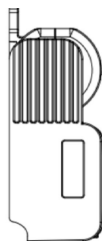
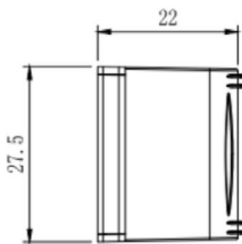
In addition to the PTSPS067 Wireless Infrared Temperature Sensor, our product line includes:

- **PTSPS067B:** A cutting-edge binocular infrared thermal imaging camera, providing comprehensive temperature monitoring and analysis with a dual-lens viewing experience.
- **PTSPS067M:** A cutting-edge monocular infrared thermal imaging camera, offering versatile temperature monitoring and analysis with a single-lens viewing experience.



Dimensions

(Unit: mm)



Specifications

Temperature Measurement Type	Infrared
Focus Point	2.1 mm
Aperture	0.8
FOV	90° x 90° (1024 points)
Energy Harvesting	5 A ~ 10,000 A (Optional)
Operational Voltage	EH or 7.5 Vac ~ 275 Vac (direct) EH or 3.6 Vdc (direct)
Wireless Operational Bandwidth	433.92 MHz
Transmission Power	10 dBm
Wireless Transmission Distance	0 meters ~ 20 meters (Enclosed) / 300 meters (Open Space)
Altitude	≤4000 meters
Measurement Accuracy	±1°C (Spacing 10cm)
Measurement Distance	1 cm - 50 cm
Transmission interval	30 seconds to 120 seconds (the higher the temperature, faster the data sending)

Relative Humidity	≤95% RH (non-condensing)
Measurement Interval	10 sec / time
Protection level	IP 50
Operating Temperature	-20°C ~ 65°C
Temperature Measuring Range	-20°C ~ 200°C
Storage Temperature	-20°C ~ 65°C
Flammability Rating	V 0 (700°C 30 Seconds)
Compliance	EN 62479; EN 61326; EN 220, 300, 301, 400, 489
Installation Mode	Alloy Strip Bundling / Screw Fastening / Magnet absorption

Ordering Information

Part Number	Product Description
PTSPS067	PTSenR™ Wireless Infrared Temperature Sensor