

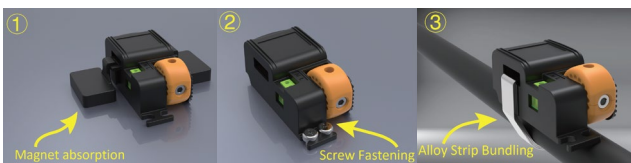
### Product Overview

The PtsenR PTSPS067 Infrared temperature sensor with intelligent platform is mainly used in the electrical contact temperature measurement of low-voltage system. It uses industrial array sensors and the latest wireless communication chip, which can cooperate with the rotating infrared temperature probe, greatly improving the physical range of measurement space, temperature measurement accuracy and wireless communication distance.

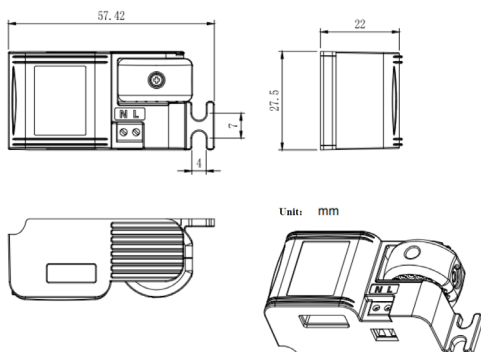
In the long-term operation process, the high and low-voltage cabinet cable joints, terminal box cable joints, transmission busbar joints or the cable itself will inevitably increase the contact resistance due to oxidation and corrosion of the surface, loose fastening bolts and other reasons, which will cause heating and electric corrosion of the contact parts. In serious cases, the connecting parts can be burned and short-circuit fault can be caused, resulting in large-scale power failure. Thus, the reliability of power supply system is reduced, resulting in significant economic losses. Therefore, the implementation of on-line temperature detection of power equipment such as high-voltage switchgear, timely detection and treatment of hidden dangers before equipment failure is an important part to ensure the safe operation of power and build a strong smart grid.

Thermal imager is a kind of equipment which can detect the thermal pattern in the infrared wavelength spectrum without direct contact with the equipment. It is mainly used for non-destructive testing, and different from ordinary infrared temperature measurement, which focuses on the measurement of point temperature. But the thermal imager is planar imaging, which can realize multi-point temperature measurement at the same time. Due to the high technical threshold and large industry span of infrared thermal imager, there are not many domestic manufacturers of this kind, mainly are acting as agents while researching and developing independently.

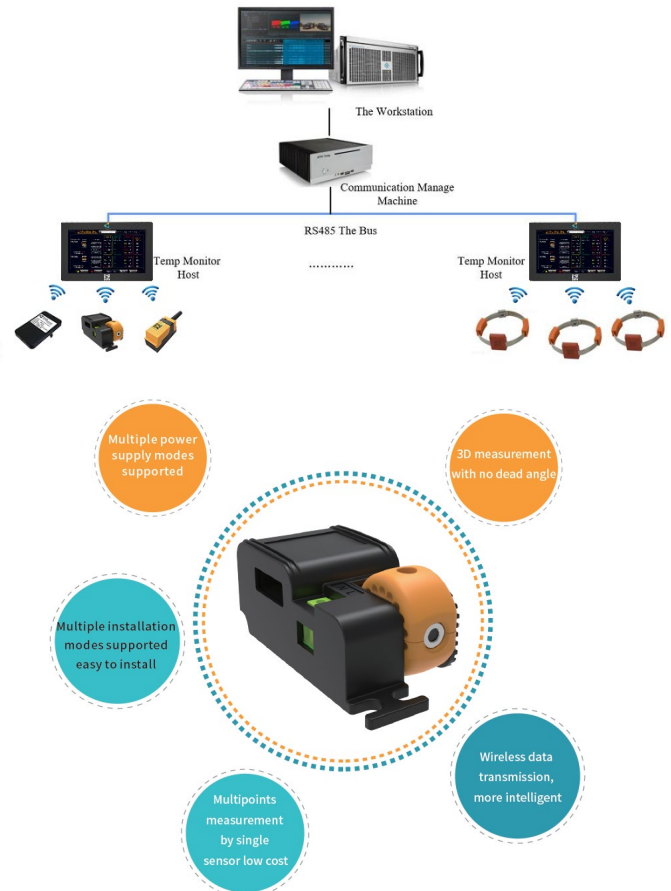
### Installation



### Dimensions



### The System Architecture



### Specification

Temperature measurement type	Infrared
Focus Point	2.1mm
Aperture	f0.8
FOV	90° x 90°
Energy Harvesting (EH)	5A ~ 5000A
Operational Voltage	EH or 7.5Vac ~ 275Vac (direct) EH or 3.6Vdc (direct)
Wireless Operating Bandwidth	433MHz (Zigbee)
Transmission Power	10dbm
Wireless Transmission Distance	0 ~ 20 meter (enclosed) / 300meter (open space)
Altitude	≤4000m
Relative Humidity (RH)	≤95%RH (non-condensing)
Storage Temperature	-20°C ~ 65°C
Operating Temperature	-20°C ~ 65°C
Temperature measuring range	-20 ~ +200°C
Measurement accuracy	±5°C (Spacing 10cm)
Measurement Distance	<50cm
Measurement interval	10 sec / time
Transmission interval	30 to 120 seconds (the higher the temperature, faster the data sending)
Protection level (IP)	IP50
Flame retardant grade	V0 (700°C 30 Sec)
Service life	10 years
Installation Mode	Alloy Strip Bundling / Screw Fastening / Magnet absorption
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
PTSPS067	PTSenR Wireless Infrared Temperature Sensor

