

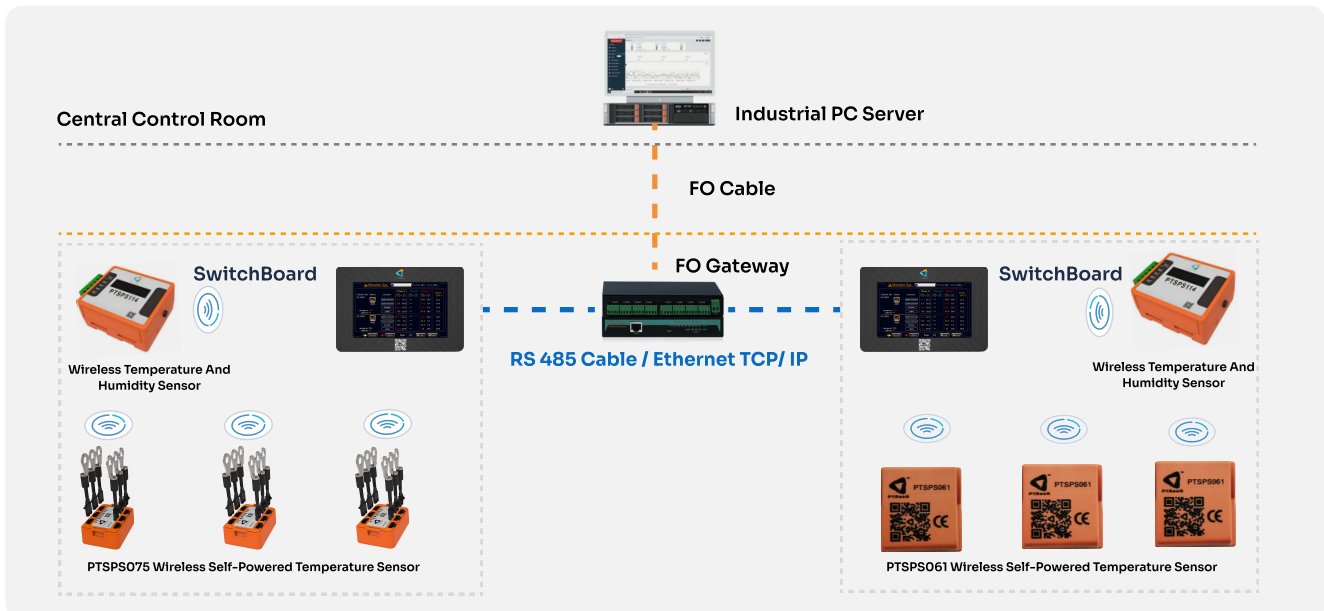
PTSPS075 Cable Temperature Sensor Systems

Product Overview

The PTSenR™ PTSPS075 is an advanced temperature monitoring solution designed for precise and reliable data acquisition in various electrical systems. This innovative sensor is capable of measuring multiple data points, including conductor and joint temperatures. The PTSPS075 gathers temperature and humidity information at the electric termination node and transmits this data to a central monitoring system. This enables real-time temperature monitoring and timely alerts, which are critical for maintaining the safety and efficiency of low-voltage switchboard cabinets.

PTSPS075 stands out due to its array of robust features. Engineered to be installed inside electrical switchboards, the PTSPS075 guarantees high accuracy and reliability. PTSPS075 is a vital tool for maintaining the safety and functionality of electrical systems, offering precision, reliability, and ease of use in one comprehensive package.

System Architecture



Applications

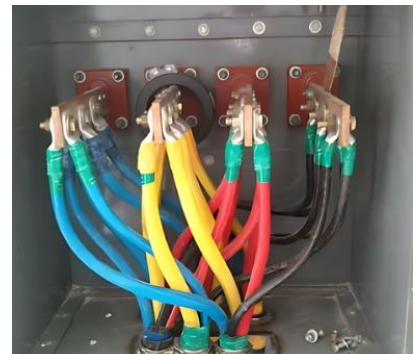
Busduct Tap-Off-Unit



MCC Drawers



LV Transformer Terminations



Characteristics

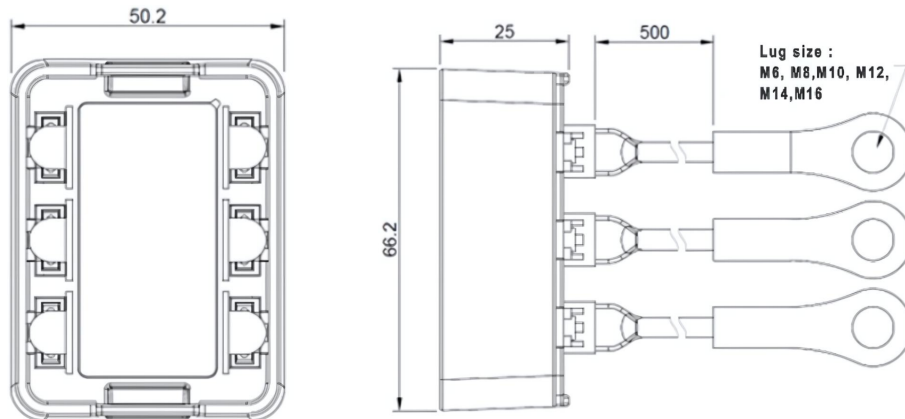
The PTSenR™ PTSPS075 incorporates six individual cable sensors, providing comprehensive monitoring capabilities. The plug-and-play design, with built-in quick connect terminal blocks, ensures straightforward and hassle-free installation. The device conditions input signals into accurate temperature values without requiring an external power source, making it a highly efficient solution for continuous temperature monitoring.

Engineered to be installed inside electrical switchboards, the PTSPS075 guarantees high accuracy and reliability. It is calibrated for lifetime use, ensuring consistent performance. Installation is both fast and easy, with secure direct attachment to various lug sizes, enhancing the device's adaptability. The sensor is also designed to detect potential faults before they escalate, thus preventing failures and ensuring system integrity. Additionally, the PTSPS075 integrates seamlessly with existing systems, further simplifying its deployment.



Dimensions

(Unit: mm)



Specifications

Power Supply Input Voltage	220 - 794 VAC/ 100 - 600 VDC
Energy Harvesting (EH)	< 50 µA
Accuracy	±1°C
Temperature	-40°C ~ 125°C
Temperature Measurement	Direct Contact Type
Measurement Interval	1 sensor - 5 seconds, 6 sensors - 30 seconds
Transmission Interval	50 seconds ~ 310 seconds
Wireless Operating Bandwidth	433.92 MHz
Transmission Power	10 dBm
Protection Level	IP 4X
Flammability Rating	V 0 (700°C 30 Seconds)
Withstand Voltage	2.5 KV
Impulse Withstand Voltage	Uimp = 8 KV
Miscellaneous	
Cable Sensor Host dimension	50.2 x 66.2 x 25 (mm)
Cable Length	50 cm , 100 cm
Weight	207 grams
Operating Temperature	-40°C ~ 85°C
Relative Humidity	≤95% RH (non-condensing)
Transmission Distance	0.4~20 meters (enclosed), ≤500 meters (open air)

Storage Temperature	-10°C ~ 75°C
Mounting Method	Magnetic , Rail, Stripes
Compliance	EN 62479; EN 61326; DNVGL-CG-0339; EN 220, 300, 301, 400, 489

Ordering Information

Part Number	PTSPS075
PTSPS075	PTSenR™ Cable Sensor Host
PTSPS075M6-5	PTSenR™ Cable Probe, M6:50cm
PTSPS075M8-5	PTSenR™ Cable Probe, M8:50cm
PTSPS075M10-5	PTSenR™ Cable Probe, M10:50cm
PTSPS075M12-5	PTSenR™ Cable Probe, M12:50cm
PTSPS075M14-5	PTSenR™ Cable Probe, M14:50cm
PTSPS075M16-5	PTSenR™ Cable Probe, M16:50cm
PTSPS075M6-10	PTSenR™ Cable Probe, M6:100cm
PTSPS075M8-10	PTSenR™ Cable Probe, M8:100cm
PTSPS075M10-10	PTSenR™ Cable Probe, M10:100cm
PTSPS075M12-10	PTSenR™ Cable Probe, M12:100cm
PTSPS075M14-10	PTSenR™ Cable Probe, M14:100cm
PTSPS075M16-10	PTSenR™ Cable Probe, M16:100cm
Product Description	PTSenR™ HV Cable Clamp Temp Sensor