

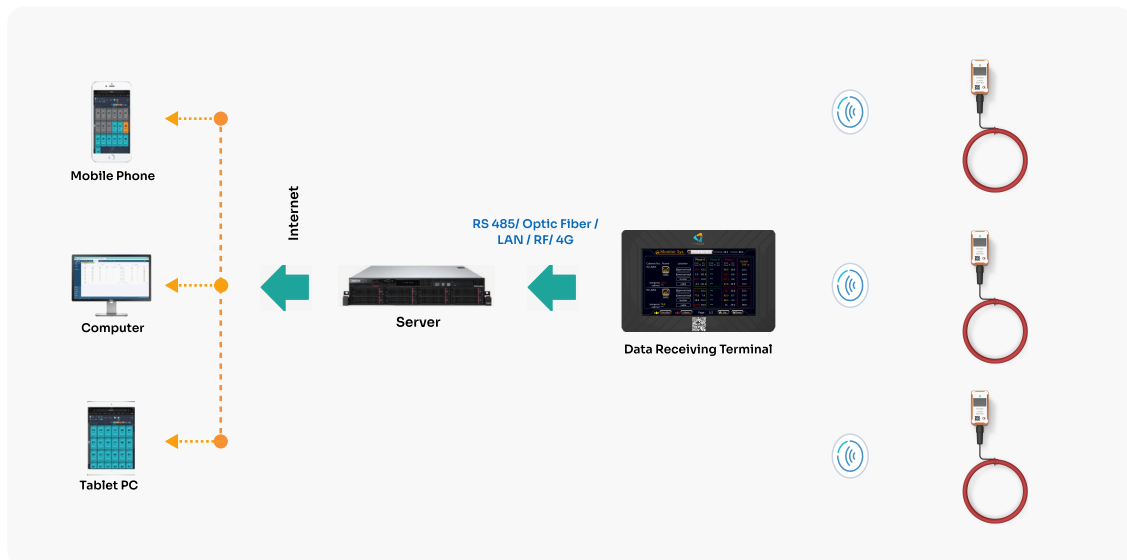
PTSPS088 Wireless Current Flow Sensor – 50 A to 2000 A

Product Overview

The PTSenR™ PTSPS088 Wireless Current Flow Sensor is designed to mitigate the risks associated with excessive current in electrical cables, caused by factors such as load short circuits, sudden load changes, material aging, poor contact, and current overload. This sensor is engineered to function reliably under harsh conditions, including strong magnetic fields, high currents, and elevated temperatures. Utilizing an ultra-low power consumption design, the sensor harnesses the magnetic field around the cable to generate power, eliminating the need for an external power supply.

This makes it environmentally friendly, energy-efficient, maintenance-free, and easy to install. It also features complete electrical isolation and strong anti-interference capabilities. Operating online, the sensor transmits real-time current data wirelessly to a monitoring terminal, enabling precise and continuous cable current monitoring.

System Architecture



Applications

Substation Inlet and Outlet Lines



Cable Branch Boxes



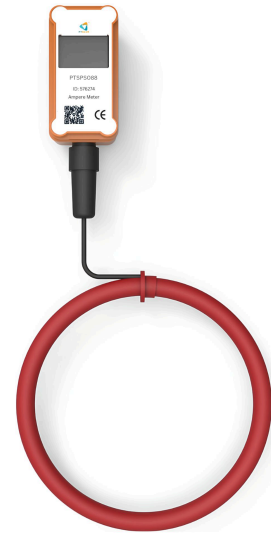
Ring Network Cabinets



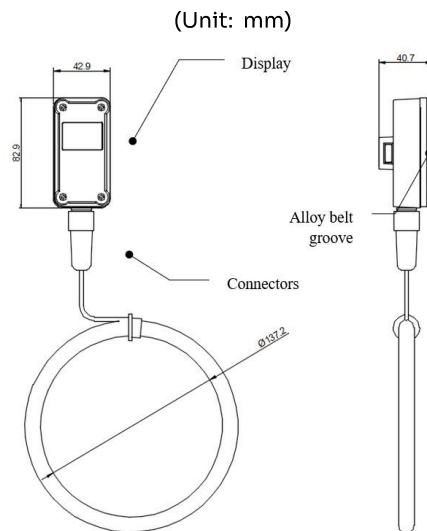
Characteristics

The PTSenR™ PTSPS088 wireless current sensor offers a range of valuable features. It supports wireless data transmission and ensures high-precision current sensing for accurate monitoring. Its passive design is powered by electromagnetic energy, eliminating the need for maintenance. A liquid crystal display provides easy observation of current readings.

The sensor is capable of operating in extreme temperatures, from very cold to very hot, and can function effectively in high-humidity environments. It measures a wide range of current levels with high accuracy and transmits data over substantial distances in open spaces. The sensor is highly durable, featuring strong protection against environmental factors and a high level of flame resistance. Installation is user-friendly, designed to be easily attached around the outer insulation layer of single-core cables.



Dimensions



Specifications

Working Environment	-40°C ~ 85°C	Installation	Bundled
Power Supply	Electromagnetic energy collection (AC sine wave 50~60 Hz, starting current ≥5 A)	Firing Power	10 dBm
Flow Measurement Range	Current: 50 A ~ 2000 A	Cable Requirements	The outer side of the insulation layer of the single-core cable, the outer diameter range is 20 to 120 mm
Measurement Accuracy	±5%	Compliance	EN 62479; EN 61326; EN 220, 300, 301, 400, 489
Wireless Operating Bandwidth	433.92 MHz	Ordering Information	
Measurement Interval	10 seconds	Part Number	Product Description
Sending Interval	180 ~ 200 seconds	PTSPS088	PTSenR™ Wireless Current Flow Sensor - 50 A to 2000 A
Transmission Distance	≤300 meters (open space)		
Protection Level	IP 67		
Flammability Rating	V 0		
Relative Humidity	≤95% RH		
Flow Measurement Method	Rochester Coil		