

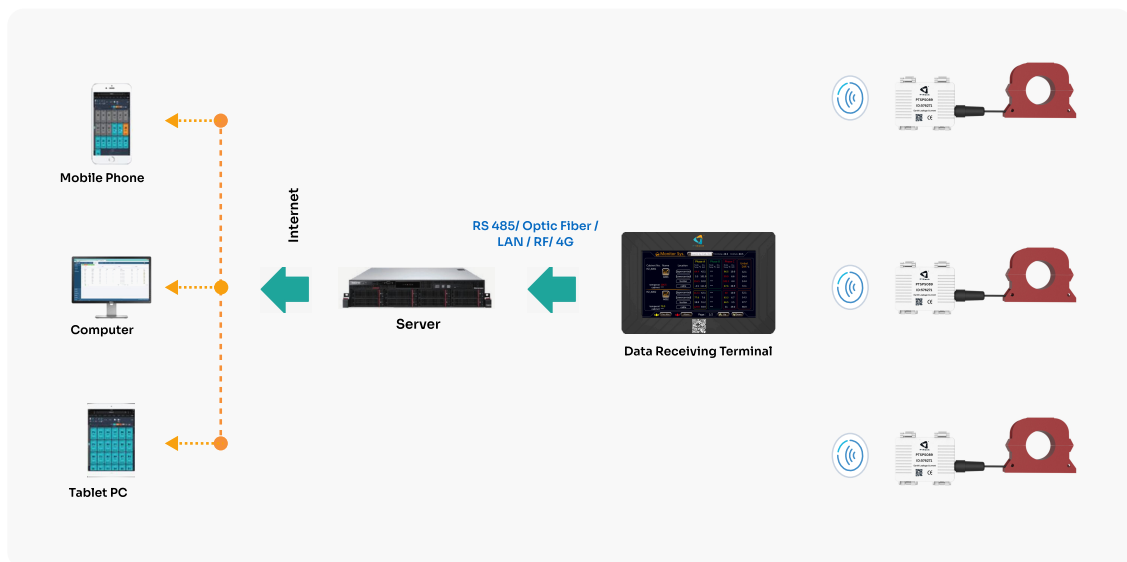
# PTSPS089 Wireless Earth Leakage Current Flow Sensor 0 A to 10A

## Product Overview

The PTSenR™ PTSPS089 Wireless Earth Leakage Current Flow Sensor is designed for long-term stable operation under challenging conditions such as strong magnetic fields, high current, and high temperatures, often encountered in electrical equipment cables. It effectively addresses uncertainties like short-circuiting, sudden load changes, and issues stemming from cable ageing, poor contact, or overloading.

With ultra-low power consumption, this sensor harnesses the magnetic field energy around the cable to power the system, eliminating the need for an external power supply. Its environmentally friendly design ensures full energy utilization while being maintenance-free. The sensor provides thorough electrical isolation, is easy to install, offers strong anti-jamming capability, and ensures reliable operation. Operating continuously online, it collects real-time current data, which is transmitted wirelessly to a monitoring terminal, enabling precise leakages current monitoring.

## System Architecture



## Applications

Substation Inlet and Outlet Lines



Cable Branch Boxes



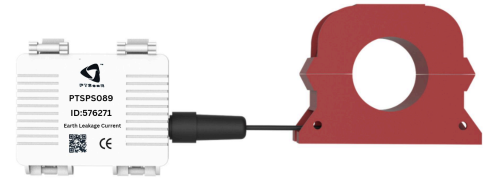
Ring Network Cabinets



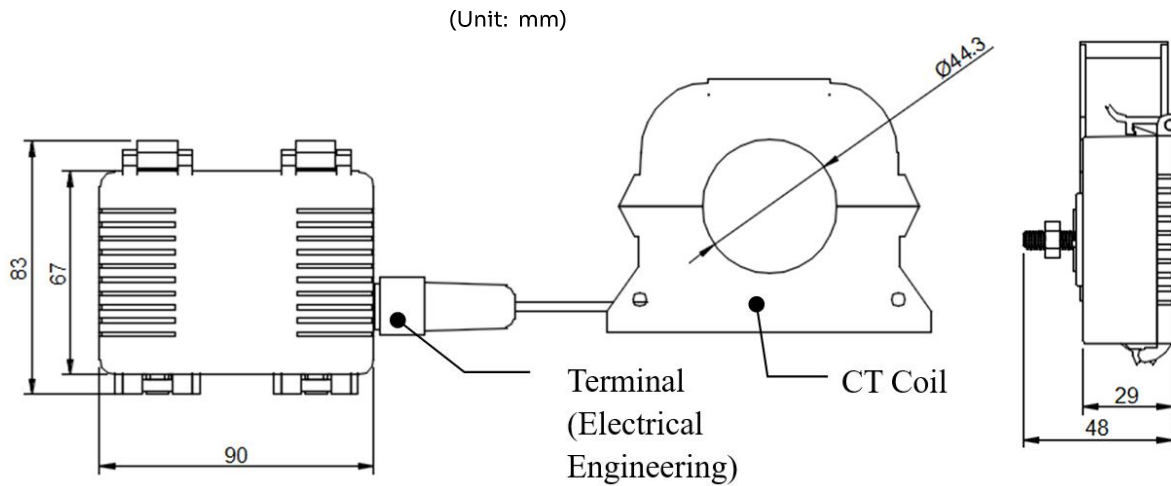
## Characteristics

The PTSenR™ PTSPS089 Wireless Earth Leakage Current Flow 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	Battery Powered	Transmit Power	10 dBm
Current Measurement Range	0 A ~ 10 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	<b>Ordering Information</b>	
Measurement Interval	30 seconds	Part Number	Product Description
Sending Interval	300 seconds	PTSPS089	PTSenR™ Wireless Earth Leakage Current Flow Sensor - 0 A to 10 A
Transmission Distance	≤300 meters (open space)		
Protection Level	IP 67		
Flammability Rating	V 0		
Relative Humidity	≤95% RH		
Current Measurement Method	CT coil		