PTSPW2100 Wireless Receiving Module (18 Sensors)

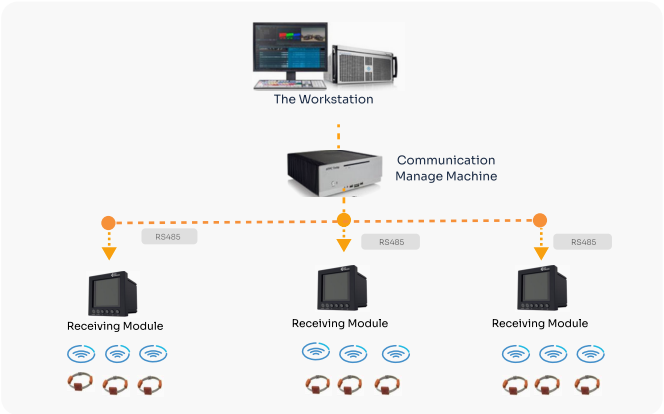
Product Overview

The PTSenR™ HMI Receiving Module (PTSPW2100) is a wireless temperature monitoring solution designed to address the challenges of thermal monitoring in high-voltage electrical equipment. It provides continuous monitoring of temperature rise in various components such as switch cabinets, breakers, switches, cable joints, transformers, and large current cabinet connection point site due to material aging, poor contact, current overload, and other factors caused by excessive temperature rise.

The module's wireless capability eliminates the need for complex wiring and makes installation easier, especially in existing infrastructure. It offers real-time temperature display, relay contact alarms, and RS485 communication. This wireless temperature measurement systems is accurate, reliable and easy to install. The wireless temperature receiving terminal serves as a gateway for the company's wireless temperature sensor network, enabling seamless integration and data collection from multiple sensors.

System Architecture

Cloud storage with remote monitoring.

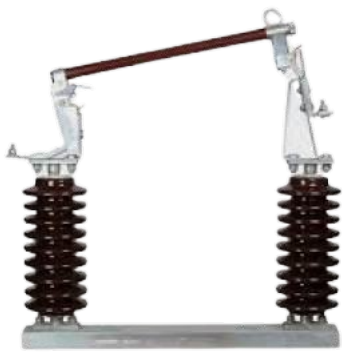


Local BMS/SCADA/DCIM

Applications

MV Ring Main Unit

MV Isolator



LV Panel or ATS Panel

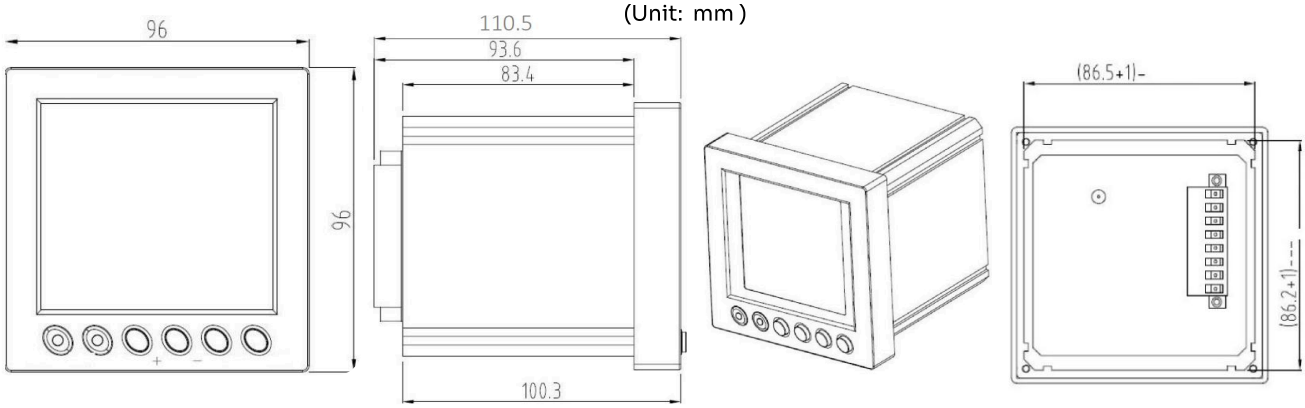
Characteristics

The PTSenR™ HMI Receiving Module is characterized by its advanced sensing technology and robust wireless communication capabilities, specifically tailored for high-voltage environments. It effectively isolates high voltages and resists electromagnetic interference, ensuring accurate and reliable temperature data transmission.

The module's user-friendly interface allows for easy setup and operation, making it a practical choice for both new installations and retrofitting projects. Its compatibility with building management systems (BMS) or supervisory control and data acquisition (SCADA) systems further enhances its value by enabling seamless integration into existing monitoring and control infrastructures.

Dimensions

(Unit: mm)



Specifications

Power Supply Input Voltage	AC 200 V ±20%, DC 110 V / 220 V
Maximum Power Consumption	≤3 W
Wireless Operating Bandwidth	433.92 MHz (Zigbee)
Wireless Reception Sensitivity	-110 dBm
Wireless Receiving Distance	0.4 ~ 200 meters
Communication Output	RS485
Alarm of Outputs	Relay output
Output Relay	AC 220 V , 3 A
Communication Rate	2400 bps ~ 9600 bps
Communication Protocol	Standard Modbus-RTU protocol
Max. Numbers of Sensors	18 pcs
RS485 Communication Distance	<1200 meters

Miscellaneous	
Mounting Cut-out	86.5 x 86.5 (mm)
Dimensions Size	105 x 96 x 96 (mm)
Mounting Method	Embedded
Weight	0.40 (kgs)
Operation Temperature	-20°C ~ 70°C
Relative Humidity	≤95% RH (non-condensing)
Storage Temperature	-20°C ~ 70°C
Compliance	EN 62479; EN 61326; EN 220, 300, 301, 400, 489

Display Screen	
Graphic Display Screen LCD Type	LCD Display (FSTN)
Viewing Area	3.5 inches
Illumination Backlight	White LED
Resolution Ratio	160 x 160

Ordering Information	
Part Number	Product Description
PTSPW2100	PTSenR™ Wireless Receiving Module