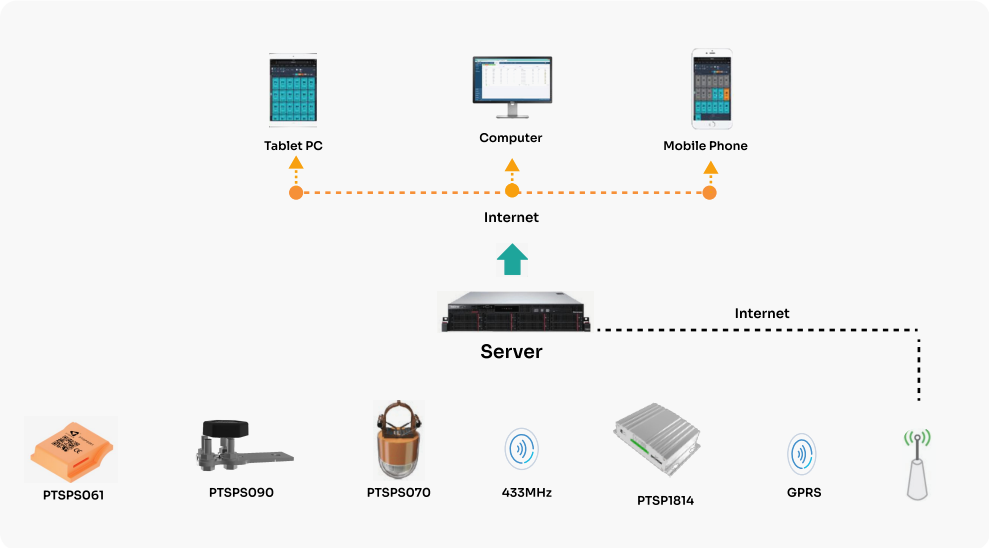
PTSP1814 Wireless GPRS Repeater

Product Overview

The PTSenR™ PTSP1814 model is a sophisticated data transmission device that integrates wireless receiving and GPRS data forwarding for seamless and secure data transfer. This wireless GPRS repeater is designed for efficient network monitoring, featuring a high integration density and low power consumption. With its built-in data transmission module, the SP1814 ensures high sensitivity and strong anti-interference capabilities, supporting real-time monitoring by transmitting signals to the network background via GPRS.

The device incorporates two RS-485 isolated transceivers, a GPRS network module, and an RF wireless receiving module, making it an ideal choice for various outdoor terminal boxes, high and low voltage switch gears, ring main units, box substations, and breaker mechanism cases in electric power departments.

System Architecture



Applications

Outdoor Terminal Boxes

High and Low Voltage Switchgear

Online Monitoring

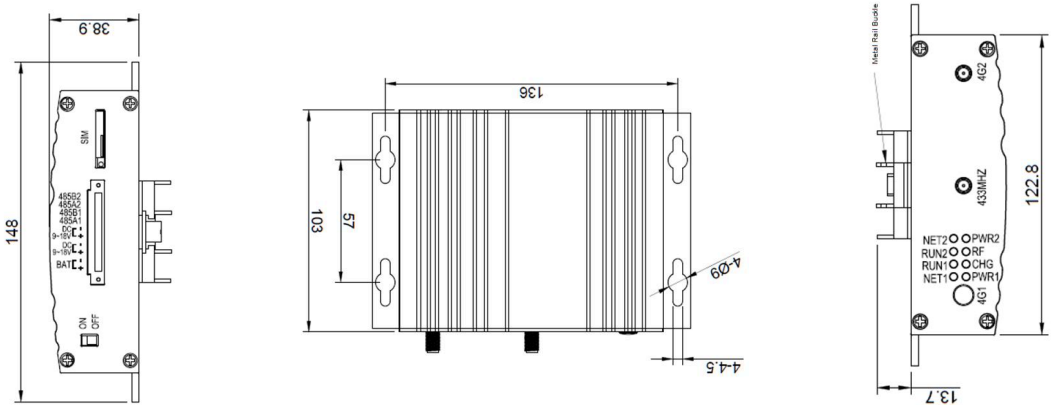
Characteristics

The PTSenR™ PTSP1814 offers wireless data transmission, eliminating the need for manual inspection by automatically uploading data to the background. It is designed for high stability and fast processing, ensuring reliable and efficient data handling. The device features a built-in data transmission module that is energy-efficient, with low power consumption and high sensitivity. Its robust design includes strong anti-interference capabilities, making it highly reliable in various environments.

The PTSP1814 supports multiple power supply modes, including solar energy, direct current, and storage batteries, providing flexibility for different usage scenarios. It operates effectively in a wide range of temperatures and environmental conditions, making it versatile for outdoor and industrial applications. The device is designed for easy installation with standard nut and bolt fixtures and is suitable for locations without significant vibration or impact.

Dimensions

(Unit: mm)



Specifications

Working Environment	-40℃～+85℃
Altitude	≤4000 meters
Relative Humidity	≤95% RH
Power Supply Mode	Solar energy or DC 9~18 V or storage battery 3.7 V
Working Current	600 mA
Standby Current	20 mA
RS485 Rate	9600 Kbps
RF Frequency	433.92 MHz
RF Receiving Sensitivity (at the most)	-110 dBm @ 1 Kbps
RS485 Interface (selective)	Input via one route and output via one route
Number Of Configurable Sensors	≤120

Protection Level	IP 30
Pollution Level	The installation site has a pollution level of 2
Installation Area	Locations without substantial vibration and impact are recommended for installation
Compliance	EN 62479; EN 61326; EN 220, 300, 301, 400, 489

Ordering Information	
Part Number	Product Description
PTSP1814	PTSenR™ Wireless GPRS Repeater