

PTSP1807 Wireless Multi-function Communication Gateway

Product Overview

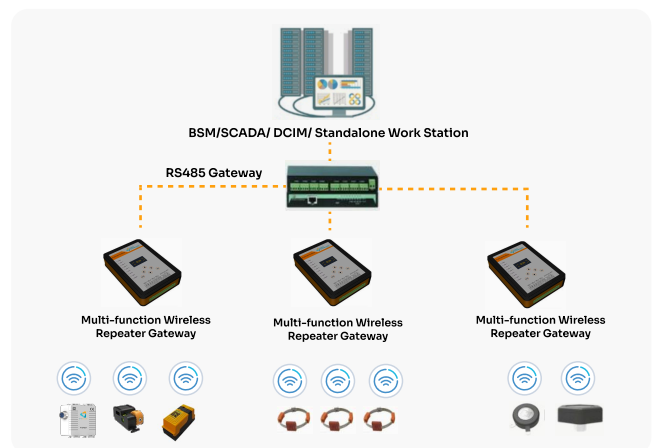
The PTSenR™ PTSP1807 Wireless Communication Gateway, equipped with LCD display, is a versatile, high performance device designed for seamless data transmission and network management. It supports multiple communication interfaces, including RS485, optical fiber, and Ethernet, ensuring compatibility with a wide range of systems. Utilizing a low-power data transmission module, the PTSP1807 offers efficient, reliable performance while minimizing energy consumption.

It excels in converting RS485 signals into relay signals for transmission to industrial computers, facilitating real-time monitoring and control in various applications. With its high integration, sensitivity, and anti-interference capabilities, the PTSP1807 is a dependable solution for industrial communication needs.

System Architecture



Ethernet Cloud storage with remote monitoring



Local BMS/SCADA/DCIM/Standalone Workstation

Applications

MV Ring Main Unit



MV Isolator



LV Panel or ATS Panel



Characteristics

The PTSP1807 wireless communication gateway is characterized by its versatile communication capabilities, featuring four RS-485 isolated serial ports that function as a 3-in-1-out serial concentrator. It utilizes the wireless protocol for long-range, low-power wireless communication and seamlessly converts RS485 signals for compatibility with various systems.

Equipped with two RF wireless transceiver modules, it efficiently receives and transmits signals, while reserved interfaces for Ethernet and optical fiber communication enable flexible data forwarding through userdefined channels. Visual signal indication through lamps aids in realtime monitoring and troubleshooting. Additionally, its robust design ensures reliable operation in harsh outdoor environments.



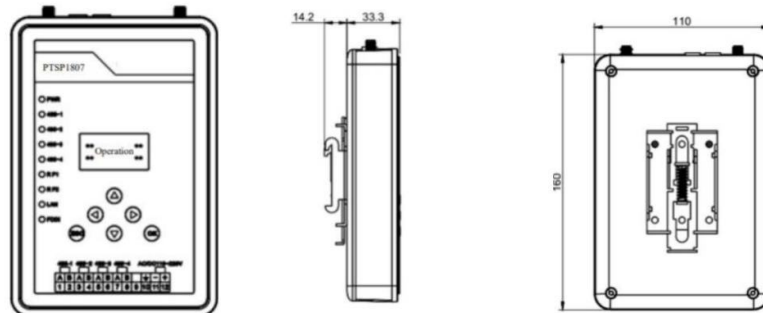
Related Products

In addition to the PTSP1807 GATEWAY MODULE with RS485, our product line includes:

- **PTSP1807-E:** This model adds an Ethernet interface to the PTSP1807 for high-speed data transmission and seamless integration with Ethernet networks.
- **PTSP1807-F:** This model includes a fiber optic interface for secure, long-distance, highbandwidth communication immune to electromagnetic interference.

Dimensions

(Unit: mm)



Specifications

Power Supply Input Voltage	AC 100 - 264 V DC 110 - 220 V	Miscellaneous	Dimensions Size	110 x 29.5 x 160 (mm)
Maximum Power Consumption	≤3 W		Weight	< 0.35 (kgs)
Wireless Operating Bandwidth	433.92 MHz / 2.4 GHz (Optional)		Operation Temperature	-40°C ~ 85°C
Transmitting Power	10 ± 1 dBm		Relative Humidity	≤95% RH (non-condensing)
Wireless Transmission Distance	0.4 ~ 1000 meters (depends on site condition)		Protection Level	IP 40
Communication Output	4 channel RS485 (Standard) 1 Port Ethernet TCP/IP (Optional) Optical Fiber Communication (Optional)		Storage Temperature	-40°C ~ 85°C
Installation Class	Class Level 4 Pollution		Compliance	EN 62479; EN 61326; DNVGL-CG-0339; EN 220, 300, 301, 400, 489
Installation Location	Less exposed location where there is not significant vibration or shock		Relative Sensitivity (Max)	136±1 dBm @ 250 bps
Communication Rate	2400 bps, 4800 bps, 9600 bps and 115200 bps		Mounting Method	Standard 35 mm guide rails
Max. Numbers of Sensors	Upto 500 pcs		Transmission Rates	Up to 4 Kbps
LCD Display Dimension	1.54" inches	Ordering Information		
		Part Number	Product Description	
		PTSP1807	PTSenR™ Multi-function Wireless Gateway	