

### Product Overview

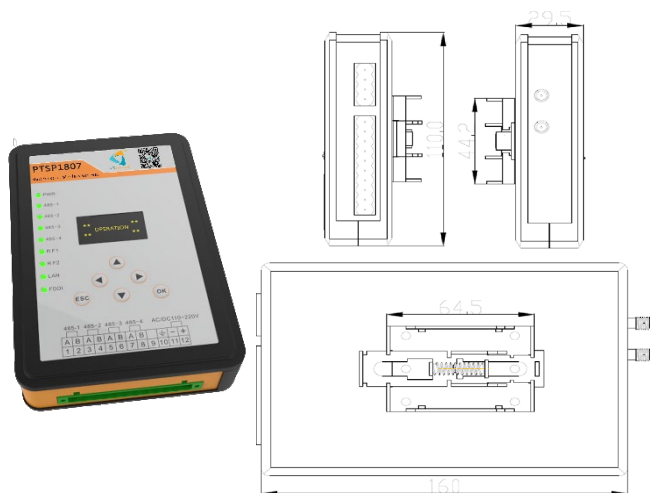
The PTSenR Multifunction Wireless Gateway Module (PTSP1807) device is a transparent transmission device which integrates receiving, transmitting wireless data via RS485 or Optical Fiber or Ethernet forwarding data. It is a data transmission product with high processing speed and stability. With this communication repeater, users can easily realize network monitoring and management. The product uses low power Zigbee Green Protocol data transmission module, which has the characteristics of high integration, low power consumption, high sensitivity, long distance, high anti-interference ability and so on. The main function is to transform the RS485 signal hubs into relay signals and transmit them to the background industrial computer or BMS or SCADA or CLOUD.

### Application

This product is mainly used in various outdoor terminal boxes, high and low voltage switchgear cabinets, ring network cabinets, various box substations, circuit breaker mechanism boxes and other related fields used by the power sector. It is used in network with other wireless temperature measurement products of PTSenR.

PTSP1807 product has four RS-485 isolated serial ports, which constitute a three-in-one-out serial concentrator. At the same time, it is equipped with two RF wireless transceiver modules to receive or transmit the wireless communication protocol signals of PTSenR, and reserve the interface of Ethernet communication and optical fiber communication output to realize the forwarding and communication conversion of multi-functional signals. In the operation mode, RS-485 signals sent from the lower equipment are sent to the background industrial computer by centralized processing, which are sent by arbitrarily set serial port, optical port and RJ45 interface to achieve real-time monitoring purpose. It can also be used as a long-distance relay signal product. When the effective signal passes through the corresponding channel, the corresponding signal lamp will flicker.

### Dimensions



### The System Architecture

#### Local BMS/SCADA/DCIM/STANDALONE WORKSTATION



#### CLOUD storage with remote monitoring



### Specification

Power Supply Input Voltage	AC/DC 110~220V
Maximum Power Consumption	≤3W
Wireless Operating Bandwidth	433MHz, 470MHz, 2.4GHz (Zigbee)
Transmitting Power	19±1 dBm
Receiving Sensitivity (Maximum)	136±1 dBm @250bps
Transmission Rate	Up to 4Kbps
Wireless Transmission Distance	0.4 ~ 1000meter (Open Area)
Communication Output	4 channel RS485 (Standard); 1 Port Ethernet TCP/IP (Optional); Optical Fiber Communication (Optional);
Installation Class	Class Level 4 pollution
Installation Location	Less exposed location where there is not significant vibration or shock
Communication Rate	2400bps, 4800bps, 9600 bps
Ingress Protection (IP)	IP40
Max number of sensors	>1000 pcs

#### Miscellaneous

Dimensions Size	110 x 29.5 x 160 (mm)
LCD Display Dimension	1.54"
Weight	<0.35 (kgs)
Operation Temperature	-40°C ~ 85°C
Relative Humidity (RH)	≤95%RH (non-condensing)
Storage Temperature	-40°C ~ 85°C
Mounting method	Standard 35mm guide rails
Certification	CE – EN 61000-6-2:2005+AC; 2014/35/EU LOW VOLTAGE DIRECTIVE; 2014/30/EU ELECTROMAGNETIC COMPATIBILITY DIRECTIVE EN 61000-6-4:2007+A1:2011; EN 62368-1:2014+A11:2017

#### Ordering Information

Part Number	Product Description
PTSP1807	PTSenR Multifunction Wireless Gateway

