

### Product Overview

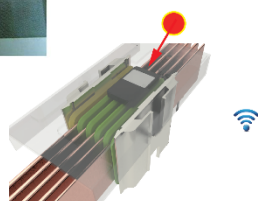
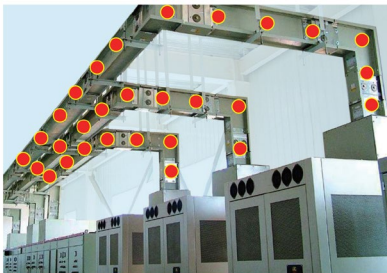
In recent years, with the emergence of modern engineering facilities and equipment, the power consumption of all walks of life is increasing rapidly, especially the emergence of many high-rise buildings and large workshop. The traditional cables as transmission conductors cannot meet the requirements in the high current transmission system, the parallel use of multi-channel cables has brought many problems and inconvenience to the field installation and construction connection.

As a new type of distribution wire, plug-in boxes on the slot have increased drastically, which brings about a certain heat hazard at the same time. Compared with traditional cables, it fully embodies its superiority in high current transmission. In the face of the huge load which requires hundreds of thousands of amperes of strong current, it is necessary to choose safe and reliable conduction equipment, the busway system is a good choice, which is an efficient distribution device for current transmission, especially adapted to the need of economical and reasonable wiring for higher and higher buildings and large-scale factories. With the more and more application of busway, the safety of busway has been paid more and more attention.

The PtsenR PTSPS071 Wireless Busduct Temperature Sensor specially design and develop to further solve the problem of heat generation at the connection on the busway. The PTSPS071 uses a contact temperature sensor to measure the temperature at the node, and transmits it to the background through the wireless self-organizing network. The temperature rise of the node is monitored in real time, and the over-temperature contact is detected in time.

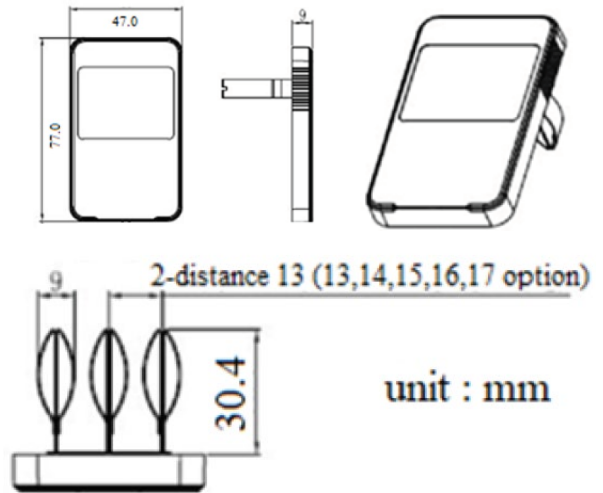
Our busway temperature measurement products emerge as the times require. The products use contact digital temperature measurement technology to measure the temperature at the nodes, and transmit data to the background through wireless communication, real-time monitoring the temperature rise of the nodes.

### Application



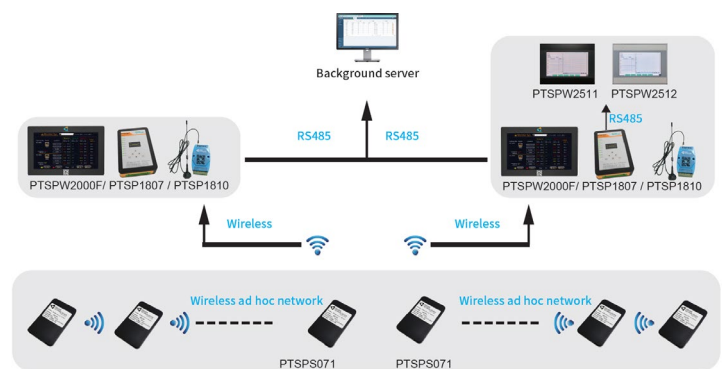
Pay attention when ordering:  
 ① The distance between cover plate and connector insulating clipboard not less than 9mm  
 ② Busbar groove copper row connection is available in 13, 14, 15, 16, 17mm spacing.

### Dimensions



(Available spacing in sizes 13, 14, 15, 16, and 17)

### The System Architecture



### Specification

Working Voltages	AC 210 ~ 456VAC / 50Hz
Power Consumption	≤0.5W
Communication	Wireless ad hoc network
Communication rate	200 kbps
Wireless Operating Bandwidth	433MHz (Zigbee)
Wireless Reception Sensitivity	10dBm
Wireless Transmission Distance	0 ~ 50 meter between sensor
Temperature measurement type	Direct Contact-type
Temperature measuring range	-40 ~ 125°C
Relative Humidity (RH)	≤95%RH (non-condensing)
Storage Temperature	-40°C ~ 85°C
Operating Temperature	-40°C ~ 85°C
Measurement accuracy	±1°C
Transmission interval	20 to 50 seconds, the higher the temperature of the sudden change, the shorter the transmission interval
Protection level (IP)	IP64
Flame retardant grade	V0 (700°C 30 Sec)
Service life	≥15 years
Altitude	≤4000m
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 62366-1:2014+A11:2017

### Ordering Information

Part Number	Product Description
PTSPS071	PTSenR Wireless Busduct Temperature Sensor

