

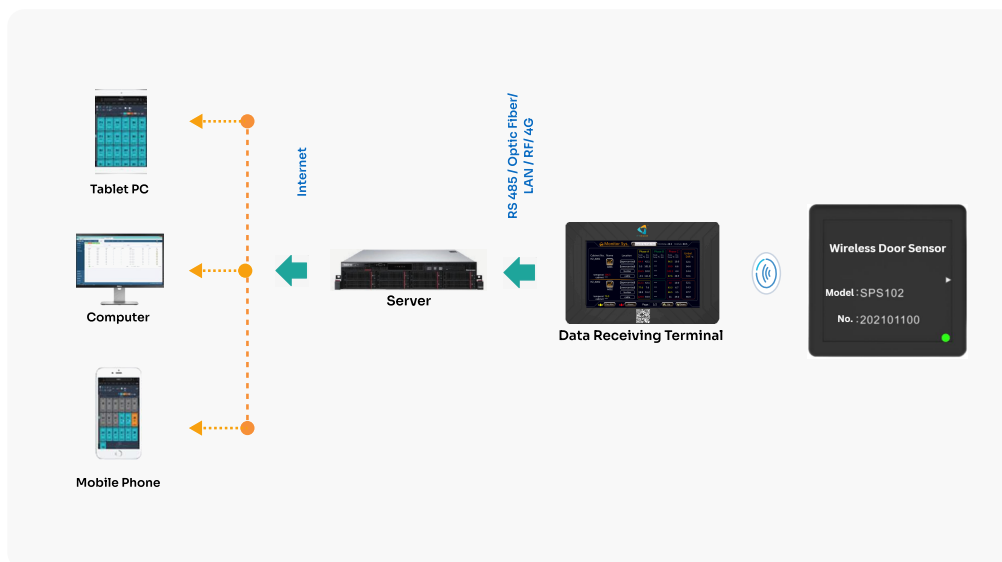
PTSPS102 Wireless Door Magnetic Sensor

Product Overview

The PTSenR™ PTSPS102 Wireless Door Sensor is a state-of-the-art device designed to monitor the opening and closing status of doors, windows, cabinet doors, manhole covers, and other related equipment. Utilizing advanced Wireless Sensor Network (WSN) technology, this sensor transmits real-time monitoring data to a background server for continuous display and management. Additionally, the sensor periodically checks and reports its battery status, maintaining consistent performance and alerting users to any potential issues.

Engineered with an ultra-low power consumption design, it incorporates radio frequency communication and CRC calibration to ensure reliable operation and strong anti-interference capabilities. This sensor is notable for its complete electrical isolation and ease of installation, making it an ideal solution for automatic monitoring of various enclosures and entry points.

System Architecture



Applications

Open and Closed State of Switch Cabinets



Ring Main Units



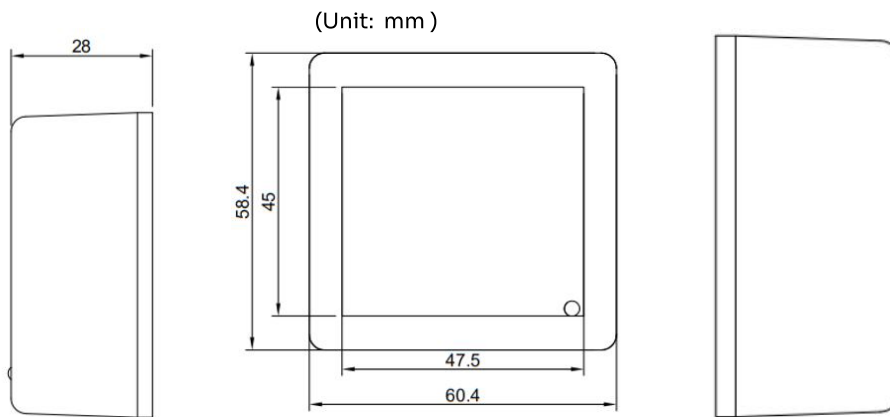
Characteristics

The PTSenR™ PTSPS102 Wireless Door Sensor is designed to operate within two commonly used frequency bands, ensuring compatibility with a range of wireless communication environments. It is built to endure extreme temperatures and high humidity, making it suitable for various challenging conditions. The sensor's robust design allows it to communicate effectively over considerable distances, ensuring reliable performance in diverse installation scenarios.

Powered by a long-lasting lithium battery, the PTSPS102 ensures continuous operation for several years, minimizing the need for frequent maintenance. Its construction adheres to stringent safety standards, offering a high level of fire resistance and protection against dust and water ingress. The sensor provides rapid status updates, swiftly indicating changes in the monitored environment, which is crucial for timely responses and efficient management.



Dimensions



Specifications

Wireless Operating Bandwidth	433.92 MHz		
Working Environment	-40°C ~ 85°C, ≤95% RH	Battery Voltage Transmission Interval	Initial Power-On: Three packets of data are sent continuously at 60-seconds intervals
Transmission Distance	≤300 meters (Open)		Normal Operation: One packet of data is sent every 12 hours
Transmit Power	10 dBm	Business Cycle	3 minutes (default, modifiable) (2.4 GHz)
Power Supply Mode	Lithium Sub-battery Powered 3.6 V (14250 type)	Control Cycles	4 (default, modifiable) (2.4 GHz)
Flammability Rating	V 0	Acquisition Cycle	30 seconds (default, modifiable) (2.4 GHz)
Status Response Time	≤5 seconds	Protection Level	IP 65
Door Sensor Status Transmission Interval	Initial Power-On: Three packets of data are sent continuously at 60-seconds intervals Normal Operation – Open Status: • Data is sent every 10 seconds. • After 10 consecutive transmissions, the system transitions to sending one packet every 5 minutes Normal Operation – Closed Status: Data is sent every 5 minutes	Compliance	EN 62479; EN 61326; EN 220, 300, 301, 400, 489
Ordering Information			
Part Number	PTSPS102	Product Description	PTSenR™ Wireless Door Magnetic Sensor