

Wireless dry contact sensors

Get real-time alerts about the contact status of essential equipment.

Our wireless dry contact sensors monitor the status of any equipment that has a volt-free, dry contact output, such as UPS status, security systems, fire alarms or air conditioning units. The small, energy harvesting devices use ultra-low power wireless and battery-less technology, making them easy to install and very low maintenance.

Features



Reports dry contact status changes in real time and status updates every 15 minutes



Connect to the device using push-wire connection of two wires



Solar-powered using ambient room light – optimally angled to absorb light – with a battery back-up for periodic low-light conditions. Batteries typically last up to 10 years

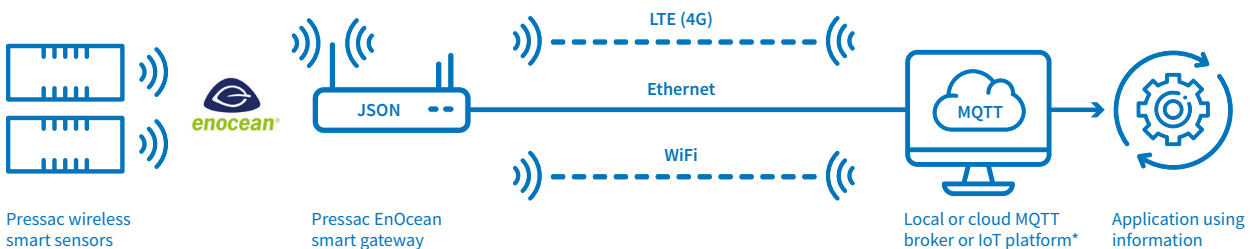


Transmits data via EnOcean wireless protocol: up to 30 metres in buildings and 300 metres in free field



Integrating sensor data

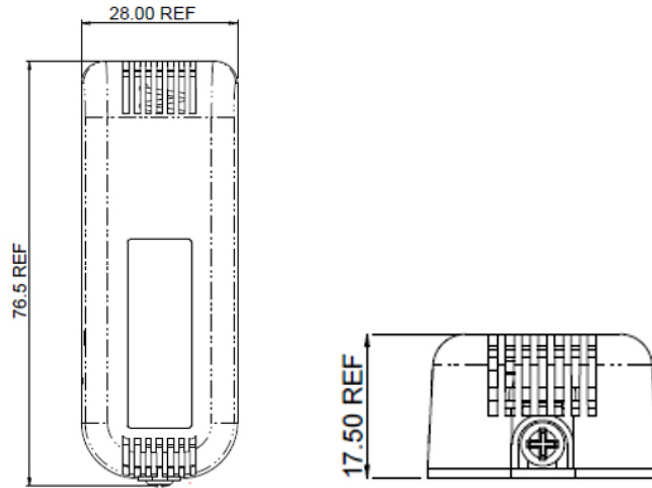
Our smart gateway receives near real-time data from all sensors within range, converts the raw data into an easy-to-use JSON format, then publishes it using MQTT protocol. Data can be sent - via Ethernet, LTE (4G) or WiFi – to any local or cloud MQTT broker; securely to IBM Watson IoT, Microsoft Azure IoT Hub or AWS IoT Core; directly into Google Sheets; or to a Node-RED application.



*Ready-made connections with:



Technical specification



Measurement	Transmission rate: reports open/close changes in real time and status updates every 15 minutes
Power specification	<p>Power:</p> <ul style="list-style-type: none"> solar – amorphous silicon solar cells battery back-up for low-light conditions <p>Battery type: CR2354</p> <p>Typical battery life: up to 10 years (dependent on ambient light conditions and use)</p> <p>Sense current: 1uA</p>
Wireless specification	<p>Protocol: EnOcean</p> <p>Radio frequency:</p> <ul style="list-style-type: none"> 868 MHz for Europe and other countries adopting RED 902 MHz for USA (FCC specification) and Canada (IC specification) 928 MHz for Japan (ARIB specification) <p>Range: up to 30 metres in buildings and 300 metres in free field</p> <p>Telegram type: 1BS</p> <p>EnOcean Equipment Profile (EEP): D5-00-01</p> <p>Security: optional secure mode AES-128 encryption</p> <p>Interoperability: EnOcean certification 3.0</p>
Enclosure specification	<p>Material: PC-ABS plastic</p> <p>IP rating: IP2X</p> <p>Dimensions: 76.5 x 28 x 17.5 mm (approx.)</p>
Installation	<p>Push wire maximum gauge: 1.3 mm</p> <p>Fixing: adhesive pads or screws provided</p> <p>Operating temperature: -20°C to +60°C</p> <p>Storage temperature: -20°C to +60°C</p> <p>Environment: indoor</p>
Compliance	CE approved, RoHS compliant, FCC compliant
Part number	MS_DRY_CON_BAT_[868]-[902]-[928]

