

PIR (MOTION DETECTION)

Available in June 2021 (Samples available on request)



BENEFITS

- Tracks motion in premises
- Infrastructure free
- Self configuring
- Energy efficient solution
- Long battery life (minimum 2 years with one battery)
- Easy to install

CONTACT INFORMATION

For commercial info:

iot@promistel.com

For technical info:

support.iot@promistel.com

TECHNICAL SPECIFICATIONS

RADIO INTERFACE

Frequency	ISM (Non licensed) 2,4 GHz Wirepas Mesh Network (2.36 – 2.48GHz)
Transmission power	+4dBm
Application data protocol	PWS (see corresponding documentation)
Hardware security	128 bits AES ECB/CCM/AAR symmetric data encryption
Range	From 20 to 40 meters (depending environment)

SENSORS

PIR Motion sensor	Tracking of motions in premises Detection range: 5 m / 10 m
Values sent from the PIR sensor via PWS	1 when motion detected, else 0
Environmental sensor Hum/Temp/Pressure/Gas (available on full option version)	Measurement of Air quality through humidity level, air temperature, barometric pressure and detection of gases level Humidity operating range: from 0 to 100% r.H Temperature Operating range: from -40 to +85°C Barometric pressure operating range: from 300 to 1100 hPa Gas detected: Ethane, Isoprene/2-methyl-1,3 Butadiene, Ethanol, Acetone, Carbon monoxide
Values sent from the Environmental sensor via PWS	Relative humidity in 100th of % Integer representing the temperature in 100th of degree Pressure in Pascal Air quality index 0-500 where 0 is very clean and 500 very polluted.
3D accelerometer (available on full option version)	Detection of inertial events Measurement range: +/- 2g, +/-4g, +/-6g, +/-8g, +/-16g (1Hz to 5.3kHz)

Values sent from the 3D Accelerometer via PWS

Sensor was stationary, and it is still stationary.

Sensor was stationary, and it is moving now

Sensor was moving, and it is stationary now

Sensor was moving, and it is still moving

Move duration in seconds

Number of moves

Acceleration state One byte per axis X/Y/Z

Acceleration value in mG.

Overall consumption:

Between 400 and 500 μ A

POWER SUPPLY

Battery

1 or 2 CR17505 Lithium 3.0V or 3.6V with JST connector

CERTIFICATIONS

HOUSING

Dimension

89.5mm x 83.5mm x 26mm

Weight

40g

Material

Polycarbonate

Standard

UL94-V0 flame retardant

ACCESSORIES

Support

Wall bracket

MECHANICAL DRAWINGS



Versions available for purchase

	Basic version	Full option version
PIR sensor	X	X
Environmental sensor		X
3D accelerometer		X

SKU CODES

<u>PRM1048-V2.2-1A</u> → PIR sensor Wirepas (Basic version)
<u>PRM1048-V2.2-1B</u> → PIR sensor Wirepas Custom network ID (Basic version)
<u>PRM1048-V2.2-2A</u> → PIR sensor Wirepas (Full options version)
<u>PRM1048-V2.2-2B</u> → PIR sensor Wirepas Custom network ID (Full options version)
<u>3-Z-17?</u> → Wall bracket
<u>3-Z-17?</u> → Battery CR17505 with JST connector