PRODUCT DATASHEET

PressacSensing

CO_2, Temperature and Humidity Sensor

Part No: 60.CO2 SLR TMP HUM.[868]-[902]-[928]

The Pressac Sensing wireless CO_2 Sensor is designed to measure and report levels of Carbon Dioxide, ambient temperature and relative humidity in an internal environment. During normal operation, the sensor is powered from ambient room light: in prolonged low light environments the security of battery back-up ensures up to 10* years of continued maintenance free operation. The sensor supports the open EnOcean® standard (ISO/IEC 14543-3-10), facilitating seamless connection with building management systems.

Features and Benefits:

- Energy harvesting – powered by ambient light from the surrounding environment
- Maintenance-free – for cost efficiency
- No wiring required – low cost of installation
- Fast installation time – minimal disruption for retro fits
- Optimal positioning – no wiring constraints

Functionality:

- Easily wall mounted, with no cabling required
- Powered by ambient light from the surrounding environment
- Battery* back-up, for robust operation in periodically dark areas
- Transmits data wirelessly using EnOcean® technology

*Battery life dependant on ambient light conditions

Applications:

- Demand/occupancy driven ventilation
- CO_2 monitoring in educational environments
- HVAC control
- Retrofit projects

IBM Registered Business Partner

Ready for IBM Watson IoT

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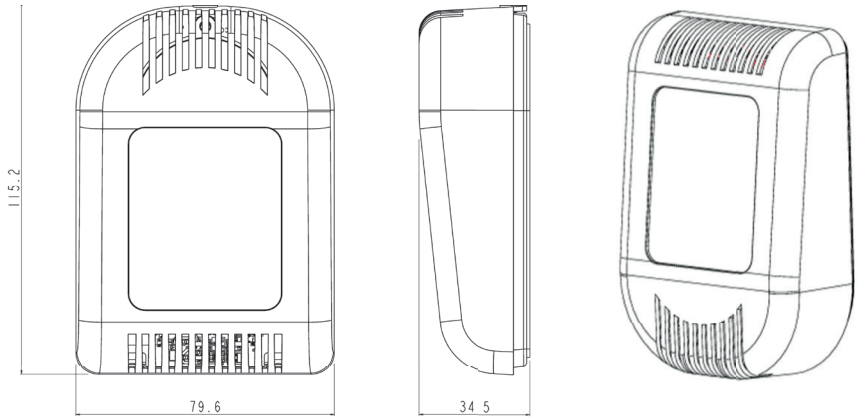

DESIGNED AND MANUFACTURED
IN GREAT BRITAIN
BY PRESSAC COMMUNICATIONS

TECHNICAL SPECIFICATIONS	
Measurement Range	CO_2 0 to 2550 PPM Temperature 0°C to +51°C Humidity 0 to 100% RH
Accuracy	CO_2 +/- 125PPM Temperature +/- 0.5°C Humidity +/- 5% RH
Operation Frequency	Available in 868.3MHz, 902MHz and 928.35MHz
Maximum Power Output	3dBm
Sampling Rate	Can be fixed to 15 minutes or can dynamically adjust between 5 and 15 minutes dependent on power source and light conditions
Repeater	No
Telegram	4BS
Environment	IP2X
Battery* Back Up	3.6v A size non rechargeable Lithium
Power Source	Solar Panel Energy Harvesting and Battery
Enclosure Material	ABS
Calibration	Manual or auto recalibrates every 8 days
Solar	Amorphous Silicon Solar Cells
Operating Temperature Range	-5°C to +60°C
Storage Temperature Range	-20°C to +55°C
Sensor Response Time	Telegram transmission is within 2 seconds of measurement
Dimensions	115mm x 80mm x 35mm approx.
EEP	A5-09-04

*Typical life expectancy of the battery is up to 10 years dependant on ambient light conditions.

enocean®

Pressac Sensing products incorporate EnOcean® wireless technology, and are fully compliant with EnOcean® protocols. The Pressac Sensing range can be integrated with EnOcean® products from over 300 global manufacturers.

EnOcean® is a widely established and global technology, and has been installed in over 250,000 buildings worldwide. The EnOcean® wireless standard is the first to be ratified as an international standard - ISO/IEC 14543-3-10: together with the EnOcean® Equipment Profiles (EEPs) drawn up by the EnOcean® Alliance, this international standard lays the foundation for fully interoperable, open wireless technology comparable to standards such as Bluetooth and WiFi. The standard can be downloaded from www.iso.org.

Pressac

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