



CENTRALISE • OPTIMISE • ECONOMISE

Well-building Environmental sensor

- 802.3at Class 1 standard connectivity
- All-in-one smart sensor to assist validation of well building V2 standards
- Measure PIR motion, ambient daylight, temperature, CCT colour, humidity, flicker, VOC gases and ambient noise
- Easy MQTT cloud integration

Product Overview

The worlds most sophisticated all-in-one, PoE powered, sensor solution enables any intelligent building project to precisely measure a variety of essential environmental parameters including PIR occupancy, ambient light, temperature, CCT colour, humidity, light flicker, VOC gases and ambient noise levels.

The ceiling recessed PoE sensor can be powered by standard 802.3at Class 1 PoE network switches enabling easy and rapid installation without the need of certified electricians. Simply, decide the sensor position and connect it using standard Cat6 / 6A structured cabling to build a comprehensive intelligent building sensor network.

Each multi-sensor provides Bluetooth connectivity for enhanced beacon marketing services or to enable tracking and wayfinding applications without the need for separate beacons with battery replacement maintenance. All functions may be programmed, controlled or commissioned using a standard BLE network.



The multi-sensor features advanced movement detection coverage of up to 6m depending on installation height with PIR detection optimised for superior performance. The PIR feature may be set in absence or presence detection mode with fully flexible programmable timing.

The daylight feature is used to maintain constant light level where controlled luminance (daylight linking) is required.

The inbuilt temperature and humidity sensor ensures that building thermal mapping can be undertaken within zones, rooms, floors and complete buildings for extra levels of comfort and safety.

For circadian lighting applications an advanced colour sensor is included to provide assurance that an installation is meeting the Well Building V2 standard.

Features

- Advanced Pyro technology offers excellent sensitivity to small movements
- Full 360° detection area
- Allows advanced daylight harvesting
- Connection via standard PoE RJ45 connectors
- Bluetooth communication and beacon functions
- Allows integration with building systems for climate control possibilities.
- Ambient noise measurement provide dual assurance excess noise levels are not reached or to determine excess noise events in zones.
- A sophisticated digital gas sensor opens up new possibilities for the measurement of indoor air quality and VOC gases including CO2.

Applications

- | | |
|----------------------|--------------------|
| • Hospital ward | • Library aisle |
| • Consulting room | • Public library |
| • Open plan office | • Classroom |
| • Partitioned office | • IT facilities |
| • Seminar room | • Atrium |
| • Small workshop | • Staircase area |
| • Studio space | • Hotel lounge |
| • Storage room | • Lecture theatre |
| • Corridor | • Rest room |
| • Reception area | • Galleries |
| • Retail outlets | • Exhibition area |
| • Restaurant | • Adaptable spaces |



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Technical data

Construction: Injection moulded polycarbonate UL94 V0 rated.

Fixing: Moulded retainer ring

Mounting hole diameter: 45 to 50mm diameter

Weight: 70g

Temperature: 0 to 45°C

Humidity: 15 - 85% RH (non condensing)

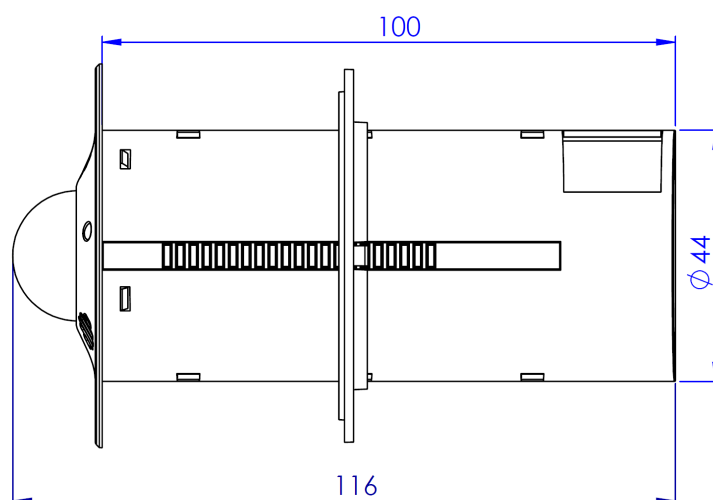
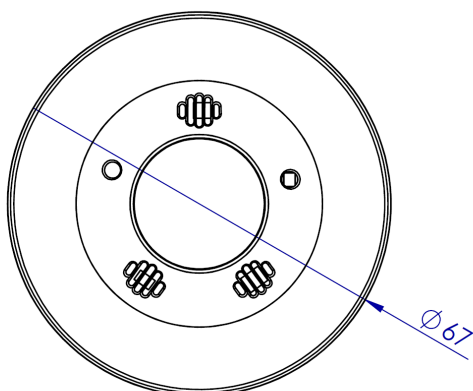
Supply: Standard 802.3at

Typical PIR stability time: 7 seconds from system switch on

Power consumption: <1W

Dimensions

Dimensions in (mm)



ENVIRONMENTAL SENSOR WITH BLUETOOTH
PoE AND BLUETOOTH CONNECTIVITY



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