SENSORIIS®

SMART BUILDING WIRELESS SENSOR

Temperature, Pressure, Humidity, Air quality, Particle, CO2, Light and Color, Sound, Presence and Vibrations

Overview

SENSORIIS® is an all-in one multi-protocol wireless sensor including environmental sensors as well as bridge for actuators remote control. Wireless communications are using long range and short-range networks, providing agile access to environmental information.

Application

Smart Building, Smart City, industrial and consumer

Key Features

Support LoRaWan™, LTE-M or NB-IOT Network.

LTE-M, NB-IOT 23dBm transmit power, PSM mode for optimized power saving mode. European, North America and Asian Pacific frequency bands.
LoRaWan™, 14dBm transmit power. Sigfox™ ready AS923, AU915, EU868, KR920, IN865 or US915 MHz ISM bands

Bluetooth Connection for Smart phone data display.
Zigbee bridge for additional external sensors and actuators
Secure communication to selected cloud

Battery powered & DC jack supply option

Powered by

SEQUANS

EURO-PROCESS

Specifications

Temperature	Pressure	Humidity
Temperature range: -40 to +85 °C Accuracy: < ± 0.2°C	Pressure range: 300 to 1200 hPa Absolute accuracy: ± 1 hPa Relative accuracy: ± 0.06 hPa	Humidity range: 0 to 100% Accuracy: ± 3.5%
Light and Color	**Sound**	**Presence**
Ambiant light: 0.01 to 140000 Lux RGB color light sensor	Signal-to-Noise ratio: 64dB -26 dBFS sensitivity	Radar technology Detection up to 10m Angle 120° horizontal
Gaz	**Particulate**	**Vibration**
VOC and Indoor Air Quality CO2: 400 to 5000ppm HCHO: 0 to 1000ppb NO2: 50 to 10000ppb *	PM1.0, PM2.5, PM10 Min. detectable particle 0.3um Accuracy +/-10% (above 35ug/m3)	Sensitivity 0.6 m/s^2 Max. frequency 417 Hz
Mechanic	**Power Supply**	**Use Case**
ABS material – Indoor installation Dimensions: 100x100x43mm RoHS, CE, FCC	2 battery C-type; 3.6V Up to 3 years life time (duty-cycle) Stand-by current: 50uA external DC option (DC jack 5-12V)	Transmit cycles from 10min to 6 hours Embedded 230VAC/0.5A or 24VDC/2A dry contact relay

* On request