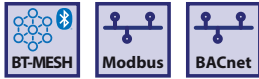


Indoor air quality sensor

LOYUNO-L

Datasheet #89087802



LOYUNO-L represents the pinnacle of indoor air quality monitoring, purposefully designed for effortless integration with BAS/BMS systems. This advanced instrument detects and analyses a wide range of indoor air quality factors, including Ultra-fine, Fine, and Standard Suspended Particulates (PM1, PM2.5, and PM10), Carbon Dioxide (CO₂), Total Volatile Organic Compounds (TVOC), while also monitoring Temperature and Humidity levels.

LOYUNO-L ensures accurate data, serving as a vital component in achieving LEED green or WELL certification for your building. Rigorously tested and certified for its precise sensing capabilities in detecting PM2.5, CO₂, and TVOC, LOYUNO-L meets the stringent standards set by WELL v2.

LOYUNO-L comes equipped with LOYTEC Bluetooth Mesh capabilities, seamlessly integrating with the other Bluetooth Mesh enabled devices. This versatile compatibility makes LOYUNO-L equally well-suited for both new construction projects and retrofitting BAS/BMS systems.

Features

- Multiple IAQ monitors (PM1, PM2.5, PM10, CO₂, TVOC, Temperature, Humidity)
- Supports BACnet MS/TP and Modbus RTU
- Meets Q1 2022, v2 WELL A08 Requirements
- Bluetooth SIG qualified device, Bluetooth 5.1 with Bluetooth Mesh Profile
- LEDs for optical air quality feedback and status indication
- Easy integration on Bluetooth Mesh enabled LOYTEC devices (e.g. LPAD-7)
- RESET Grade B Accredited Monitor

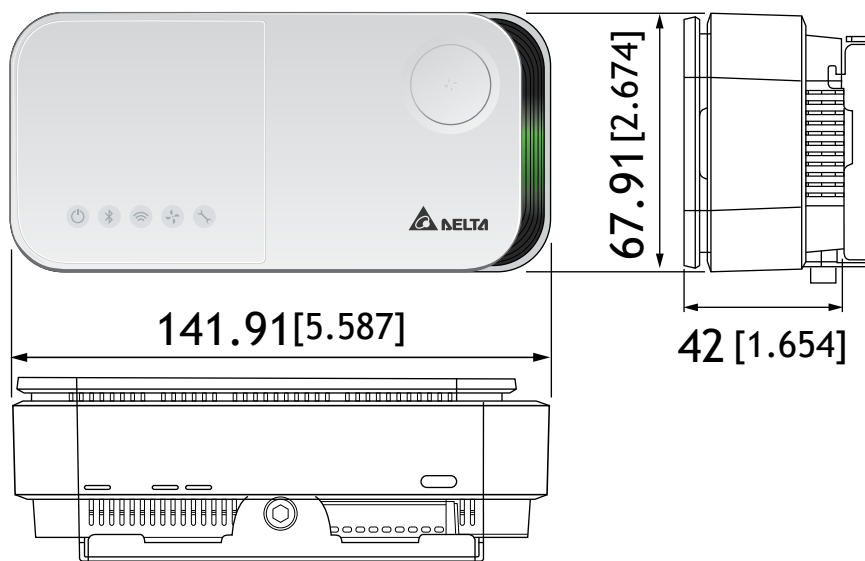
Specifications

Type	LOYUNO-L
Dimensions (mm)	141.91 x 42 x 67.91 (L x W x H), DIM083
Installation	Drywall mount, Electrical box mount, wall mount cradle
Power supply	source 1: 12-24 V DC, 24 V AC source 2: power adapter 12V/1A 6W max. (12 V DC)
Measurement	PM1: 0-1000 µg/m ³ ± (5 µg/m ³ + 20%) at 0-100 µg/m ³ ; ± 10% at 100-1000 µg/m ³ , PM2.5: 0-1000 µg/m ³ ± (5 µg/m ³ + 20%) at 0-100 µg/m ³ ; ± 10% at 100-1000 µg/m ³ , PM10: 0-1000 µg/m ³ ± (5 µg/m ³ + 20%) at 0-100 µg/m ³ ; ± 25% at 100-1000 µg/m ³ , CO ₂ : 400-5000 ppm ± (50ppm + 5%), TVOC: 0-30000 ppb ±15% in lab test (Ethanol), Temperature: 0-50°C ±1°C at 25°C and 50% rH, Humidity: 10-80% rH ±10% at 25°C and 50% rH
Sensor Data Update	Periodically 10 seconds (internal refresh rate, no faster than 10 seconds)
Bluetooth protocol conformance	Bluetooth 5.1 Declaration ID: D060851 contains qualified designs: 150092 (controller subsystem), 176697 (host subsystem) and 178269 (mesh profile subsystem)
Bluetooth & RF-characteristics	Maximum output power: 0 dBm Frequency range: 2402-2480 MHz
Operating conditions	0 °C to 50 °C, 10 – 90 % RH
Interfaces	Modbus RTU / BACnet MS/TP (Select via DIP switch), Bluetooth Mesh
Connection	RS-485, Bluetooth 5.1
For use with	Bluetooth Mesh enabled LOYTEC devices (e.g. LPAD-7)
Order number	Product description
LOYUNO-L	UNOLite Indoor Air Quality Sensor

Dimensions of the devices in mm and [inch]

DIM083

LOYUNO-L



The products of LOYTEC electronics GmbH are subject to constant development. Therefore, LOYTEC reserves the right to modify technical specifications at any time without prior notice. The most recent datasheet can be downloaded from www.loytec.com.