C02 Sensor | Model: S-CO-C05-DTWH

Specifications

- Bluetooth 5.0;
- Operating Ambient Temperature - 32°F to 122°F (0°C to 50°C) Accuracy:± 1°C;
- Operating Humidity Range - 0% to 100% Accuracy: ± 3 % r.H. ;
  Pressure range: 300-1100 hPa ± 0.6 hPa;
- Input Power - 5V, 45mA operating input range;
  -400 mA peak current;
- Ambient light resolution l00mlux;
- CO2 Sensor;
  -NDIR CO2 sensor, Fully calibrated and linearized;
  -Measurement Range: 400ppm - lO00Oppm;
  -Accuracy :+/- (30 ppm 3%);
- PM Sensor;
  -Particulate Matter (PMl.0, PM 2.5 & PM 10): resolution 0.3 µg/m3. Max Error +/- 15%
- Dimension Diameter: 3.0" (76.2mm)

Description

The **CO2 Sensor** CO2 NDIR (Non-Dispersive Infra-Red) sensors detect carbon dioxide absorption in a gaseous environment. To ensure the room stays within safe C02 concentration to enhance energy and productivity to all the occupants. This sensor includes control over temperature, humidity and VOCs.

Applications

- Monitor CO2 Concentration Levels
- Control over HVAC
- Integrates with BubblyNet Application
- Track Air Quality
- Improve Well-Being

Certifications

Installation

The **CO2 Sensor** needs to be installed recessed in the ceiling. It should be isolated from outside doors, windows and HVAC grids that can make the space appear to have more fresh air than it does.

Connectivity

Devices are repeaters for other devices and should be installed within a certain maximum distance from each other.

Typical maximum distance:	
Outdoor (line of sight):	200ft
Indoor (through building material):	
Glass:	100ft
Drywall:	70ft
Cinderblock:	60ft
Brick:	50ft
Concrete + rebar	0ft

Devices with external antenna should have the antenna outside any metal box and away from metal surfaces as metal reduces connectivity.

For design purposes a 60ft. maximum distance is appropriate for most installations.