

## Air Quality Wall Sensor

Model: S-AQ-W24-DWWH



### Specifications

- Sensor Type - NDIR
- Input Voltage – 3.3 VDC
- Current Consumption - 19mA
- Operating Temperature - -40°F to 158°F (-40°C to 70°C)
- CO2 Range - 400-10,000 ppm +/- (30 ppm 3%)
- Humidity sensitivity - 0-100% +/- 3%
- Pressure Range - 300-1100 hpa +/- 0.6hpa
- Operating Humidity - Max 95% RH
- Mounting - Wall
- Dimensions - 3.3" x 1.5" x 0.6"
- Color - White
- Warranty - 2 Years

### Description

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

### Applications

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

### Certifications



### Installation

The CO2 Sensor CO2 NDIR is very simple to install and needs to be installed within 30 feet of the closest device within the Bluetooth Mesh network.

### Connectivity

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

Typical maximum distance: <u>Outdoor (line of sight):</u>	200ft
<u>Indoor (through building material):</u>	100ft
Glass:	70ft
Drywall:	60ft
Cinderblock:	50ft
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.