

AirySense™- V2 CO2: SMART CARBON DIOXIDE SENSOR

General Description:

AirySense™-CO₂ is a Smart CO₂ Sensor which can be connected on standard Building Automation Networks. These can be used for monitoring ambient environmental conditions for monitoring and control.

Applications:

- ASHRAE prescribes the Indoor Air Quality in the form of CO₂ Levels to be within 1000PPM for human productivity to be optimal. **AirySense™-CO₂** can be used for monitoring of ambient CO₂ in Buildings and Complexes, Warehouses, Cold Storage areas, Hospitals, Food and Pharmaceutical Industries, etc. giving an indication of the Indoor Air Quality.
- Demand Control Ventilation (DCV) reduces the throttle of the HVAC system when humans are not present and achieves energy efficiency. CO₂ Level in the Zone is an effective indicator of the human presence and hence is important to implement DCV. **AirySense™-CO₂** can be integrated with Zone Thermostats for implementing DCV and achieving energy efficiency.



Salient Features:

- Provides smart monitoring of ambient CO₂ in clean and unclean environments.
- Based on NDIR Absorption based sensing principle providing best in class accuracy, stability, low power consumption and fast response
- **AirySense™-CO₂** communicates on standard Modbus RTU protocol on RS485 multidrop networks with field configurable device address and baud rates
- Adding more sensors is very easy; the network can support up to 30 more other **AirySense™** sensors or **iOTA™** remote IO modules.
- The smart sensor can be optionally provided with a local display of the real time reading
- Sensor can be optionally provided with a power relay for auxiliary switching and control of equipments based on CO₂ levels in the zone.
- **AirySense™-CO₂** is designed with an aesthetic enclosure suitable for wall mount.

Connection diagram



