



CO2 Analog Outdoor Sensor



Description

This sensor gives information concerning carbon dioxide (CO2) concentration levels, important element in air quality monitoring

The outdoor CO2 level serves as a baseline for comparison to indoor CO2 concentration.

Ventilation guidelines, such as ASHRAE, recommend indoor CO2 levels not to exceed the surrounding outdoor concentration by 600 ppm. Also, LEED guidelines suggest providing an alarm when the indoor CO2 level exceeds the outdoor level by 530 ppm, or 1,000 ppm absolute. Reliable correlation between indoor and outdoor CO2 levels can only be achieved by measuring both.

Additionally in some agriculture procedures and greenhouse installations the control of CO2 concentration is mandatory

Features

- NDIR Dual, long life, reliability. No calibration required
- Outdoor Air quality measurement
- Air quality measurement in swimming pools

Application Areas

- HVAC applications for building management
- swimming pools
- greenhouse –agriculture
- dust areas

Technical Specifications

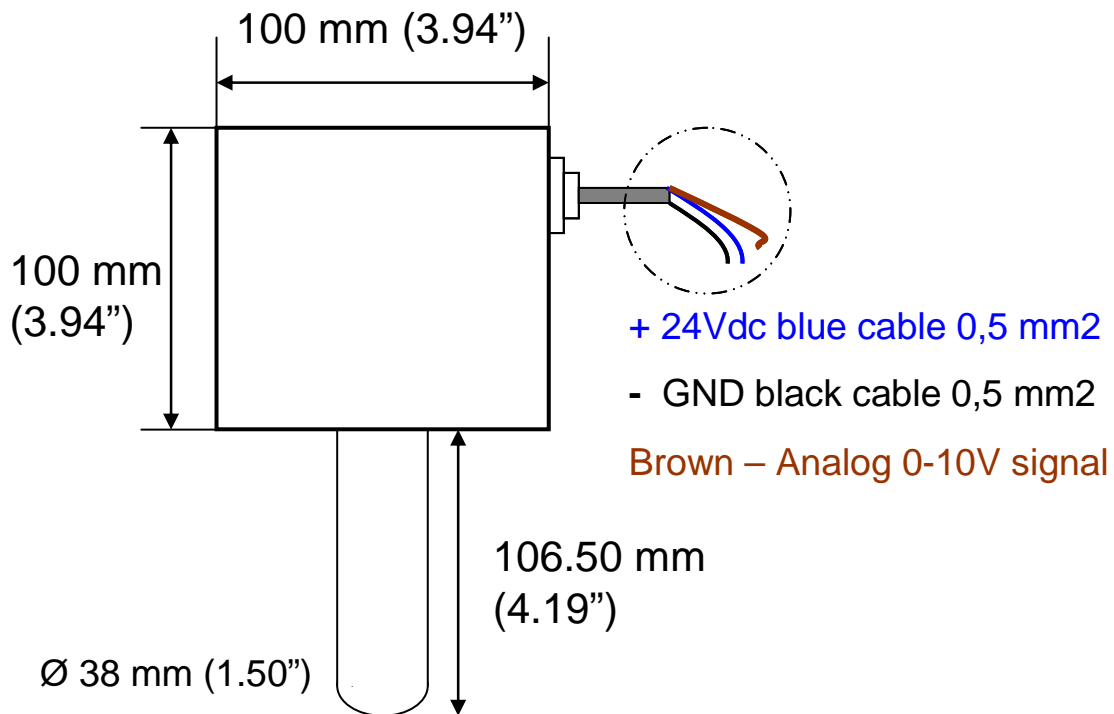
CO2 specification	
Measurement Principle	NDIR -Non dispersive infrared technology-
Sensor Type	Dual Beam Dual wavelength
Measurement Range	400 – 4000 ppm CO2 by volume
Resolution	< 20 ppm CO2
Accuracy	± 5% of reading
Pressure Dependence	0.13 % of reading per mm Hg
Response Time	< 3 minutes for a 90% step change
Warm up Time	< 30 seconds operational < 15 minutes full accuracy

Electrical Specifications	
Power supply	24 Vdc (7-28 Vdc)
Power consumption	14-45 mW
OUTPUT	Analog 0-10v Linear 0ppm-0v/4000ppm-10v
Operating Temperature	0 ~ +40° C
Storage Temperature	-20 ~ + 50 °C
Operating Humidity	0 ~ 95% non-condensing
Electrical connection	3x cable 0.5 mm2

General Specifications	
Regulatory Compliance	CE Mark: EMC 2004/108/EC, RoHS 2011/65/EU, WEEE EN61000-6-2, EN61000-6-3
Casing Material	Fiberglass reinforced polycarbonate Filter: Polyethylene
IP Housing	IP66 –EN62208
IP Sensor Filter	IP55
Housing color	Grey RAL 7035
Dimensions box	100x100x60 mm (3.94x3.94x2.36")
Filter large	106.50 mm (4.19")
Weight	0.373 kg



Installation Diagram - Cabling - Dimensions



Ordering Info Codes

Product Name	Reference	EAN-nr
NBB-AOCO2 CO2 Analogue Sensor for outdoor use (400-4000ppm)	EN025105	8437013200035
NBB-WOCO2 CO2 EnOcean 868MHz Outdoor sensor (400-2550ppm)	EN251103	8437013200233
NBB-MOCO2 CO2 MODBUS Sensor for outdoor use (400-4000ppm)	EN025606	8437013200097