

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
- Configurable Analog OUTPUT - Scaling function

Application Areas

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

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

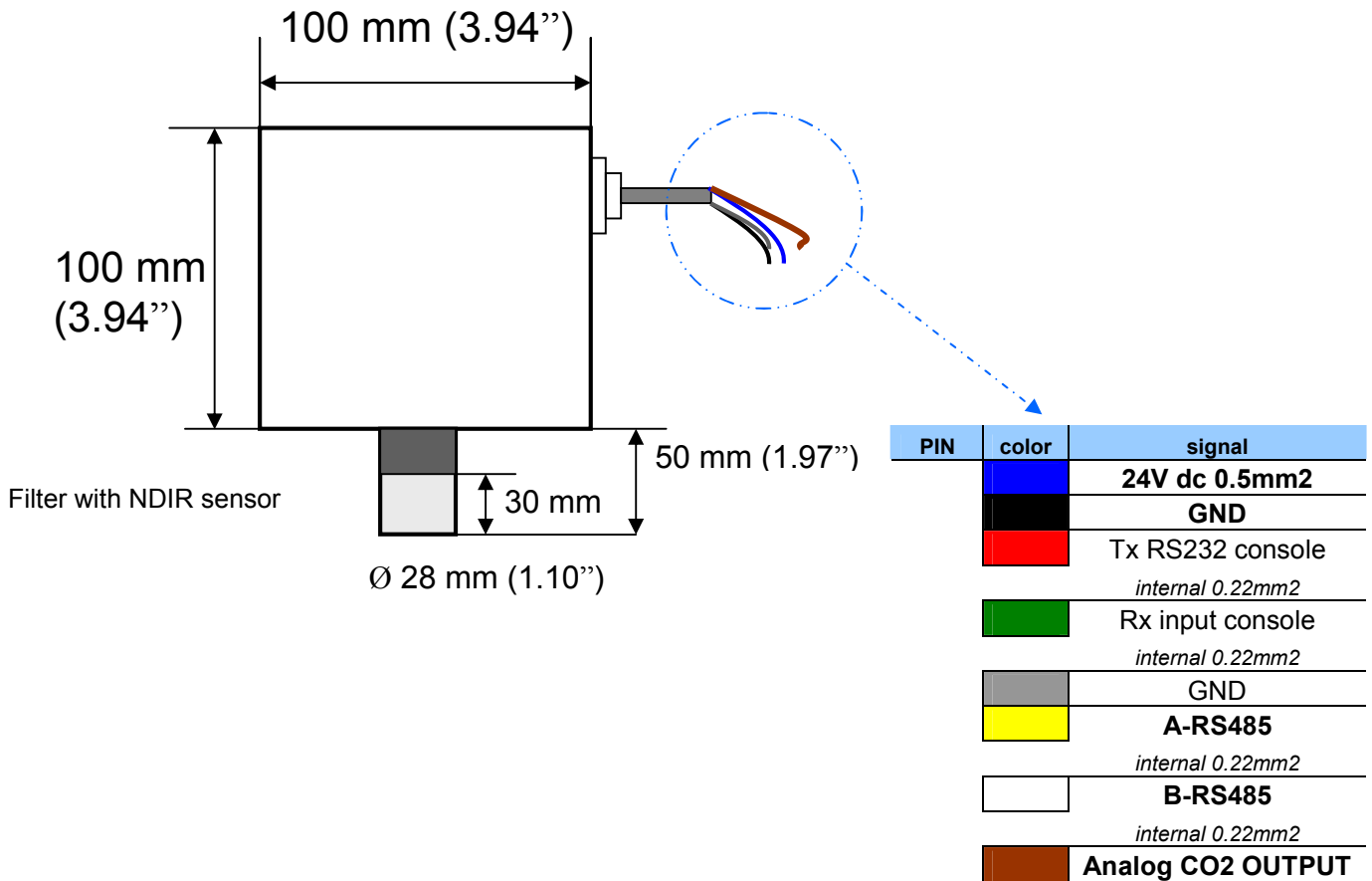
Power supply	24 Vdc (7-28 Vdc)
Power consumption	14-45 mW
OUTPUT	DPF-AOCO2-S : Analog 0-10v Linear 0ppm-0v/4000ppm-10v Configurable by RS232 connection console DPF-MOCO2-S : RS485
Operating Temperature	0 ~ +40° C
Storage Temperature	-20 ~ + 50 °C
Operating Humidity	0 ~ 95% non-condensing
Electrical connection	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	IP65
Housing color	Grey RAL 7035
Dimensions box	100x100x60 mm (3.94x3.94x2.36")
Filter large	50 mm (1.97")
Weight	0.373 kg

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Installation Diagram - Cabling - Dimensions



Accessories (included)

Mounting Flags for Wall mounted	4
1000 mm of length cable	1

Ordering Info Codes

Product Name	Reference
DPF-AOCO2-S Outdoor Analog CO2 IP65 sensor	EN025800
DPF-MOCO2-S Outdoor MODBUS CO2 IP65 sensor	EN025830

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