



Carbon Dioxide (CO2) Monitoring Sensor

Revision Date: 9/22/2025

Use Status: Available

Description:

Carbon Dioxide transmitters are designed to measure CO2 in harsh environments such as incubators and greenhouses. The materials are corrosion resistant and the housing is dust and water resistant to NEMA 4/IP65 standards. This sensor has outstanding stability over both time and temperature. Longer time between calibration intervals saves both time and money. The sensor has a measurement range of 0-20% CO2. The transmitter probes are interchangeable and they facilitate easy field maintenance. Probes can be returned for recalibration.

Note: A battery back-up is recommended for every four sensors.



Rees Info	
General Info	
Centron Input Number	1.0
Centron 1	
TestWireless Reads	4-20 mA
Workstation Reads	Linear Transducer
Is it 4-20mA?	Yes
M Value	5.0201
B Value	-5.0
Units	% CO2

Power	
Supply Voltage (VDC) Min	20.0
Supply Voltage (VDC) Max	30.0
Wattage (W)	0.4
Comes with Transformer	False

Physicalities	
Weight (lbs)	0.09
IP Rating	65
Is probe removable?	True
Cable Length (feet)	4.92
Probe Diameter (inches)	0.99
Probe Length (inches)	3.78
Probe Material	PBT plastic, PTFE membrane, PBT plastic grid, Nickel plated brass
Sensor Info	
General Info	
Operating Temperature Min (C)	-40.0
Operating Temperature Max (C)	60.0
Operating Humidity Min	0.0
Operating Humidity Max	100.0
Storage Temperature Min (C)	-40.0
Storage Temperature Max (C)	70.0
Sensor Technology	Infrared beam with Heated reflector element
Response Time	<1 min
Media Types	CO2
Rees Calibrated	False
Factory Calibrated	False
Site Calibrated	False
Types of Measurands	Carbon Dioxide
Measurands	
Carbon Dioxide	
Measurement Min	0.0
Measurement Max	20.0
Measurement Units/Information	%
Accuracy	at 77° F (+25° C) at 5%CO2 ±0.1%CO2 0...8%CO2 ±0.2%CO2 8...20%CO2 ±0.4%CO2
Analog Output	4-20 mA

Additional Detail	Warm-up time (full specifications): < 4 minutes Analog Output: Current output (0 ... 20 mA or 4 ... 20 mA) Voltage output (0 ... 5 V or 0 ... 10 V)
Pressure Dependence (typical)	±0.05 %CO ₂
Stability	<±1 %CO ₂ /year

Additional Details	
Additional Information	
Additional Information	CO₂-MON-RM3: Complete CO₂ Sensor Sensor performance is optimized at 5 %CO₂ measurement.
Related Parts	
CAL-CO ₂	Single Point Field Calibration of CO ₂ -MON-RM3 series sensors.
CAL-CO ₂ -3PT	Three Point Calibration of CO ₂ -MON-RM3 Sensor using customer provided equipment. Customer must be available to set equipment at various environmental calibration levels.
WIRE1101V1	CO ₂ Cable 5position female with pigtails