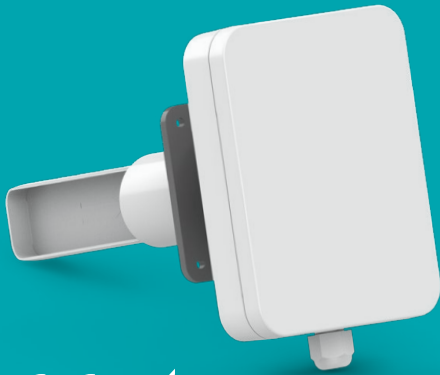


AcuCO2™ DM Series

Duct Mount Carbon Dioxide Sensor Datasheet



The AcuCO2 DM duct mount carbon dioxide (CO2) sensor utilizes reliable non-dispersion infrared (NDIR) technology and automatic baseline correction (ABC logic) to provide a maintenance free solution for the lifespan of the sensor greater than 15 years typically. The sensor is ideal for monitoring CO2 concentration levels within the ductwork of a buildings HVAC system and communicating the CO2 PPM value to the Building Automation System, or Demand Control Ventilation System, in order to improve air quality and assure a healthy and comfortable environment for occupants.

Features

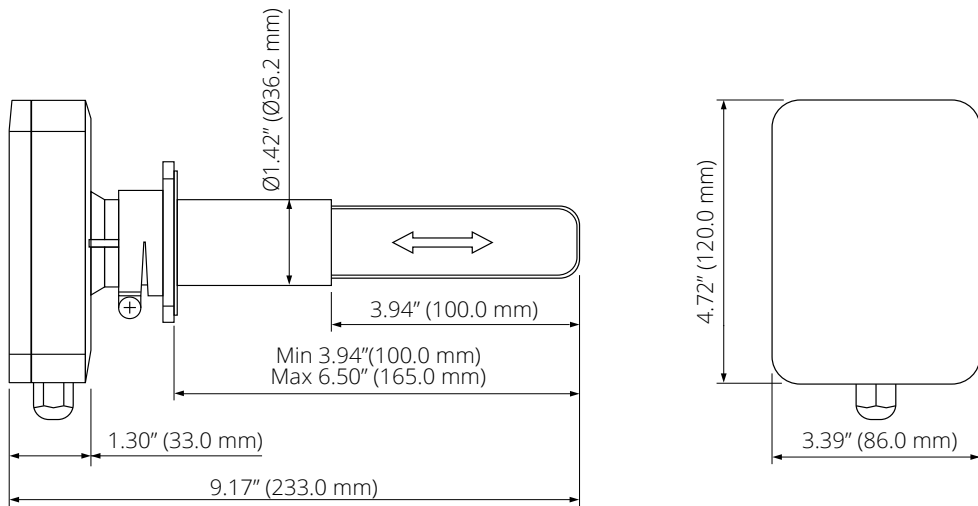
- Mounting flange provides flexibility and adjustable probe depth when needed.
- 4-20mA and 0-10VDC output options for different BAS controllers and applications.
- Reliable Non-Dispersion Infrared (NDIR) technology
- High accuracy, in conformity with RESET Standard Grade A & California Title 24
- Optimized auto baseline correction, maintenance-free
- Long lifespan greater than 15 years
- Model AcuCO2-DM-02 Meets Addendum ab to ASHRAE Standard 62.1-2022



Specifications

ELECTRICAL	
Power Supply	21.6~ 26.4 VAC or VDC
Transmitter Output	Output 1 : 0~10VDC (4 Wires) Output 2 : 4~20mA (4 Wires)
Output Load	≤500Ω (Current), ≥2KΩ (Voltage)
Operating Current	≤60mA
Standby Current	≤20mA
ENVIRONMENTAL	
Operating Temperature Range	-10~50°C (14~122°F) @ 0~95%RH (Non-Condensing)
Storage Temperature	-20~70°C (-4~158°F) @ 0~95%RH (Non-Condensing)
MECHANICAL	
Mounting	4-Screw Duct Mount Flange with Adjustable Probe and Set Screw
Wiring Connection	Push Button Terminal Blocks (4 Wire Isolated Grounds)
Weight	220g (0.49lbs)
PERFORMANCE	
Sensing Method Type	Non-Dispersion Infrared (NDIR)
Accuracy	± 30ppm and ±3% at 400-2500ppm Range @ 0~50°C (32~122°F) ± 40ppm and ±3% Above 2500-5000ppm Range @ 0~50°C (32~122°F) 0~85%RH (Non-Condensing) Automatic Baseline Correction
CO2 Measurement Range	0~2,000 , 0~2,500, or 0~5,000 PPM
Response Time	≤30s
Warm Up Time	≤180s
Sampling Frequency	1 Second
Resolution	1 PPM
Life Span	≥15 Years
CERTIFICATIONS/WARRANTY	
Enclosure Material	Fire Retardant Polycarbonate (UL94V-0)
Protection	IP65
Agency Approvals	CE, RoHS Addendum ab to ASHRAE Standard 62.1-2022 (AcuDCO2-DM-02 Only)
Warranty	5 Years

Dimensions



Ordering Information

Model	Operating Range
AcuCO2-DM	01: 0 ~ 2,000 PPM Span
	02: 0 ~ 2,500 PPM Span
	03: 0 ~ 5,000 PPM Span
Ordering Example: AcuCO2-DM-02	



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