

Ambient Conditions Sensor

Measure ambient temperature, pressure and relative humidity

Model: ACS

Key Features

- Temperature:
 - Measurement Range: -40°C to +85°C | -40°F to +185°F
 - Accuracy: ±0.5%
- Pressure
 - Measurement Range: 0.6 to 1.1 bar | 8.7 to 15.95 psi
 - Accuracy: ±0.2% RD
- Humidity:
 - Measurement Range: 0 to 100% RH
 - Accuracy: ±2.0% RD
- Power Supply: 18 to 36 VDC
- Output: Modbus RTU (RS485)
- Measure:
 - Ambient temperature, ambient pressure, ambient relative humidity (RH).



About

The Ambient Conditions Sensor (ACS) is a multi-parameter device that simultaneously measures ambient temperature, humidity, and pressure.

The sensor is reliable, accurate and has long term stability. Ideal for use in locations where you want to get a better understanding of ambient conditions and the impact on plant and equipment.

Applications

- Manufacturing, industrial and pharmaceutical use
- Temporary or permanent installations



More Info

Specifications

Temperature

Measurement Range	-40°C to +85°C (-40°F to +185°F)
Measurement Accuracy	±0.5°C
Measurement Resolution	0.001
	±0.2% to ±1.8% (-40 to +85 °C)
Effect of Temperature on Accuracy	Typical values ±0.6% @35 °C ±0.9% @50 °C

Pressure

Measurement Range	60 to 110 kPa(a) 0.6 to 1.1 bar 8.7 to 15.95 psi
Altitude	-500 to 4200 meters -1640 to 13780 ft
Measurement Accuracy	±0.2% RD

Measurement Resolution	0.01
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Humidity

Measurement Range	0 to 100 %RH
Measurement Accuracy	±2.0% RD
Measurement Resolution	0.01

Output

Outputs	Modbus RTU (RS485)
Modbus Output Signals	Temperature (°C) Pressure (kPa) Relative Humidity (RH)
Connector	5 pin M12, female

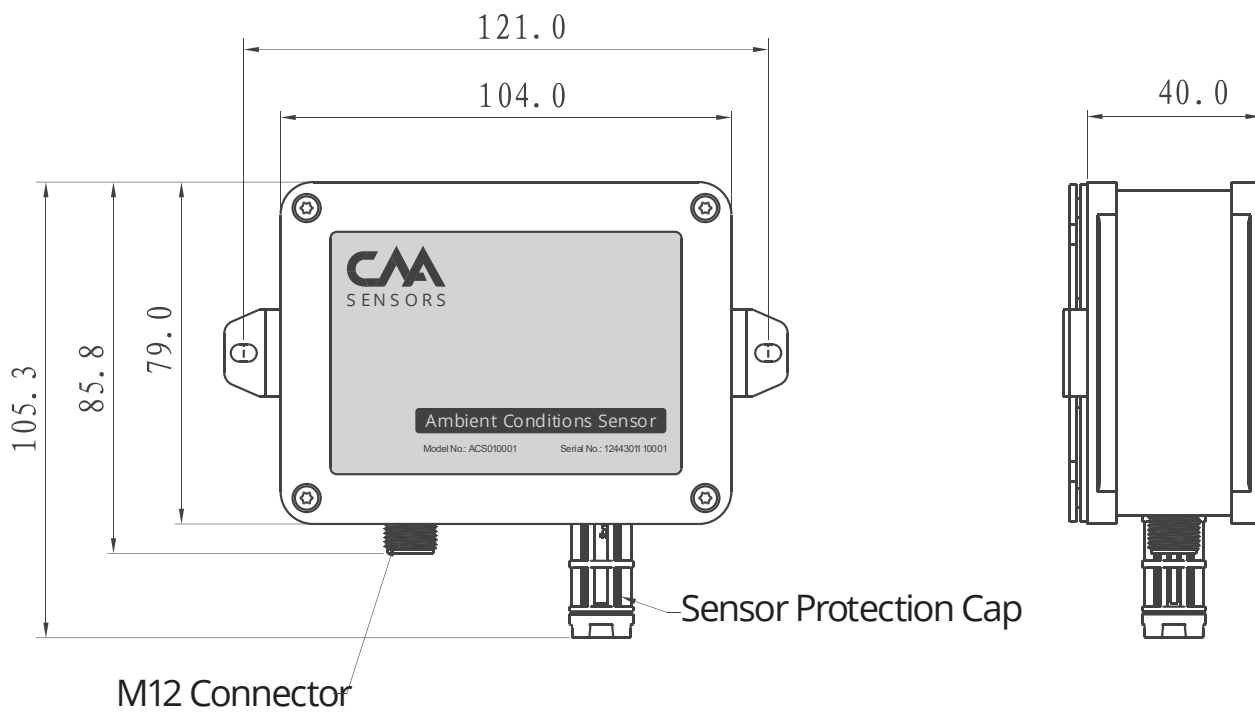
Power Supply

Power Requirement	18 to 36 vDC Max 2W @ 24vDC
Electromagnetic Compatibility	Meets IEC 61326-1

Other

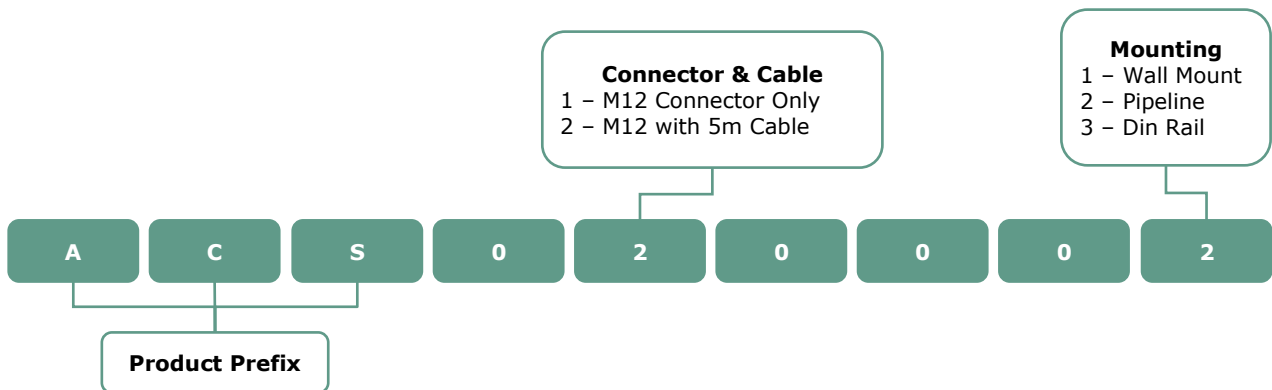
Installation	Pipeline / Wall-mounted / DIN-rail
Medium	Air
System	Ambient environments
Housing Material	ABS + AL6063
Dimensions	105 × 40 × 79 mm (L×W×H) 4.1 x 1.6 x 3.1" (L×W×H)
Weight	0.2 kg 7 ounces
Warranty	12 months
HS Code	9025.80.00

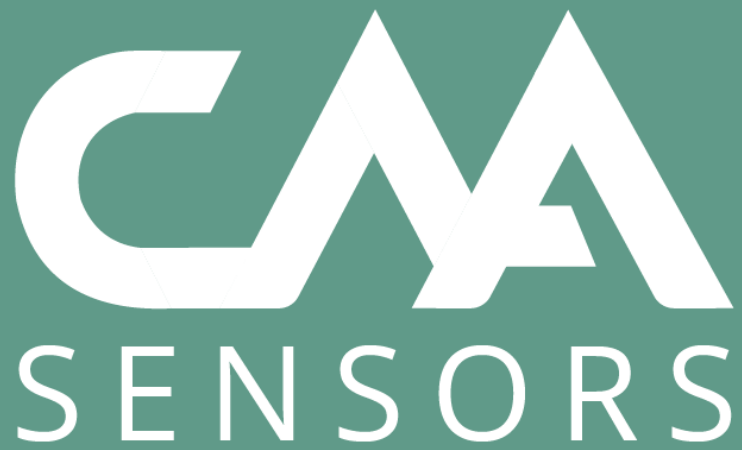
Dimensions (mm)



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