



# Dew Point Sensor – Ex and Outdoor

ATEX Rated, IP67 rating

## Key Features

- ATEX Rating
  -  II 2G Ex db IIC T6 Gb
  -  II 2D Ex tb IIIC T80°C Db
- IP67 rating
- Dew Point Range:
  - -60°C to +60°C | -76°F to +140°F
  - -110°C to +20°C | -166°F to +68°F
- Accuracy: up to ±2%
- 2.0" IPS LCD display with an ultra-wide viewing angle
- Power Supply: 16 to 30 vDC
- Two outputs as standard:
  - Digital - Modbus RTU
  - Analog – 4...20 mA
- Powder-coated Aluminium housing
- Measure: Pressure Dew Point Relative Humidity, Temperature, Pressure (optional)



## About

This dew point sensor is ideal for use in outdoor or harsh indoor environments. The optional integrated pressure sensor makes measuring simpler and easier to manage, reducing wiring and installation costs.

All CAA Sensor's dew point sensors have 10 + dewpoint calibration and multi-point temperature compensation.

The auto-calibration circuit design automatically compensates for measuring drift caused by temperature, contamination, and aging, thus providing long-term stability and high accuracy measurements.

## Applications


- Manufacturing and industrial use
- Clean, dry compressed air and inert gases
- Temporary or permanent installation
- Outdoor or harsh environments



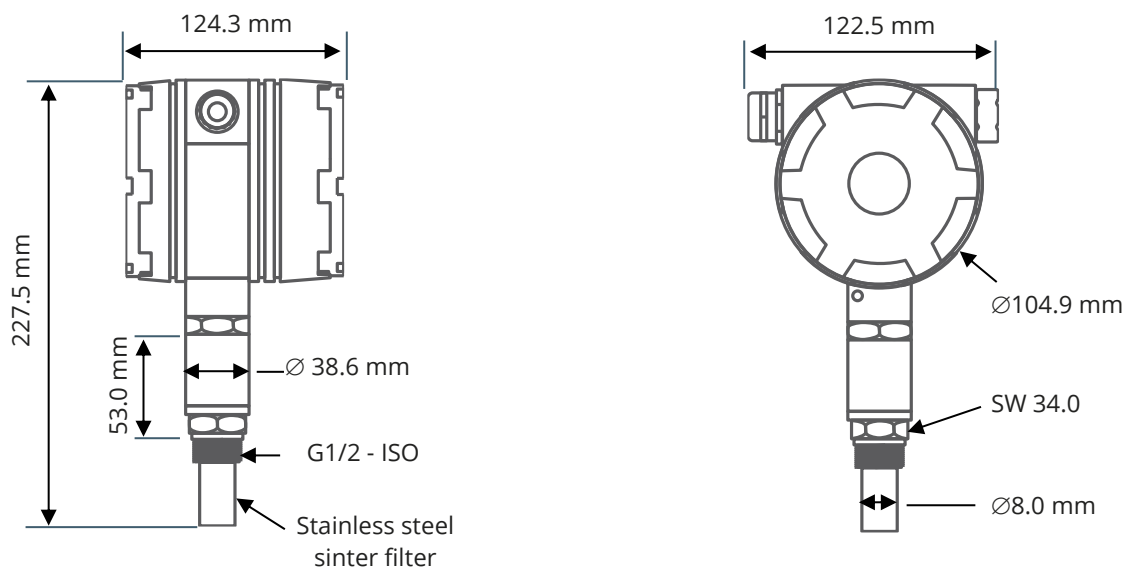
[More Info](#)

# Specifications

Measurement Range		
Pressure Dew Point Range		
Option 1	-60°C to +60°C -76°F to +140°F	Polymer sensor
Option 2	-110°C to +20°C -166°F to +68°F	Alumina-Oxide Sensor
Gas Temperature	-40 to +100°C -40 to +212°F	
Gas Pressure (optional)	0 to 17 bar 0 to 246 psi	
Accuracy		
Dew Point Accuracy		
• +20 to -60°C	±2%	
• -60 to -100°C	±3%	
Temperature Accuracy		
• 0 to + 50°C	±0.3°C	
• -40 to 0°C and +50 to +100°C	±0.5°C	
Pressure Accuracy (@23°C)	±0.3% F.S	
Pressure changes with temperature	±0.01 bar / 10°C	
The accuracy and response time of the sensor can be affected by the on-site conditions, contaminants in the gas and incorrect installation.		
Dew Point Response Time		
-50 to +20 °Ctd	20 sec [40 sec]	
+20 to -50 °Ctd	1 min [3 min]	
Reference Conditions: 63% [90%], 20 °C, 1bar(a), 4L/min		
Power Supply		
Power Requirement	16 to 30V DC/ 4.5W @ 24V	
Electrical Connection	Terminal Strip	
Electromagnetic Compatibility	Meets IEC 61326-1	
Display		
Display	2.0" IPS ultra-wide viewing angle LCD screen with capacitive touch	

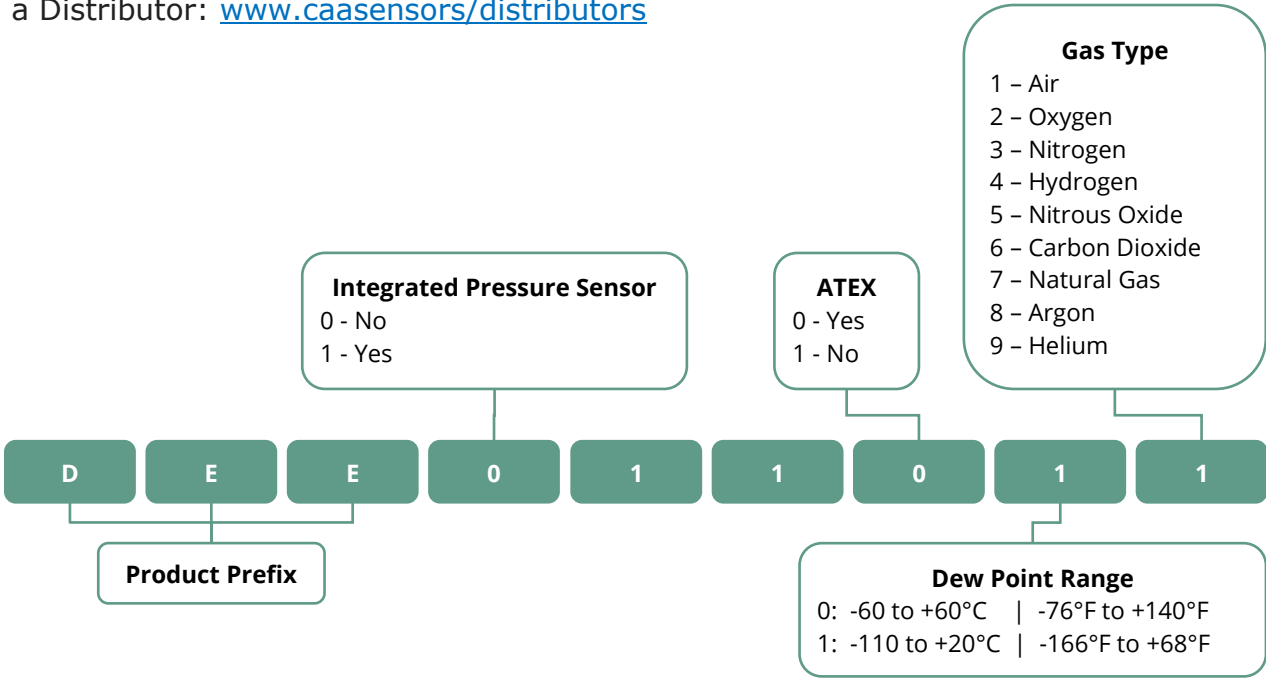
Output	
Analogue Output	4-20 mA
Digital Output	Modbus RTU (RS485)
Output Signals	Pressure Dew Point, Relative Humidity, Temperature, Pressure (optional)
Current Output Resolution	0.002 mA
Current Output Temperature Drift	0.01% of span/°C
Current Output Load	Max 500 ohm
Alarm Relay Output	Normally open 32 VDC/500 mA
Working Environment	
Ambient Temperature	-30 to +70°C -22 to +158°F
Gas types	Compressed air, nitrogen, oxygen, carbon dioxide and other non-condensable gases
Minimum Gas Flow	>1L/min
Gas Pressure	<ul style="list-style-type: none"> <li>With pressure sensor 0 to 17 bar (246 psi)</li> <li>Without pressure sensor 0 to 50 bar (725 psi)</li> </ul>
Other	
Process Connection	ISO G1/2" thread
IP Rating	IP67
ATEX Rating 	Ex II 2G Ex db IIC T6 Gb Ex II 2D Ex tb IIIC T80°C Db
Housing Material	Stainless Steel SUS304 + Powder-coated Aluminium
Sensor Filter	Stainless steel mesh filter (filter grade 30-45 um)
Weight	1.7 kg
Installation	Permanent or Temporary
Calibration	Every 2 years
Annual calibration is required if the sensor is exposed to relative humidity above 85%.	
Warranty	12 months

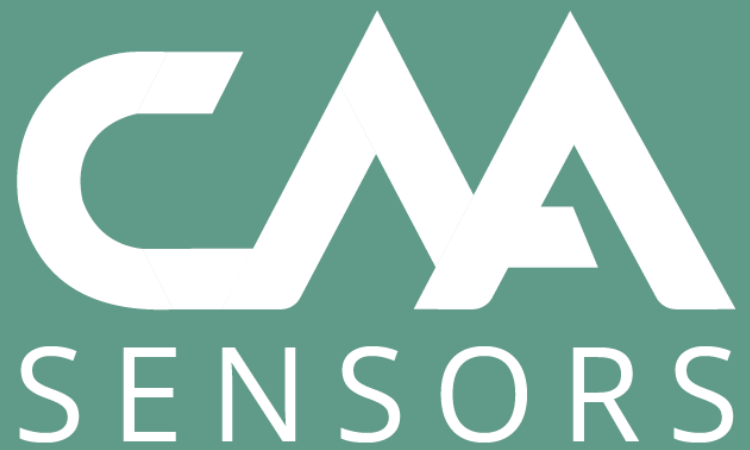
# Dimensions



# How to Order

Find a Distributor: [www.caasensors/distributors](http://www.caasensors/distributors)





CAA Sensors Pty Ltd

Head Office: Sydney, Australia

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