Dew Point Sensor – A Series

For refrigerant or desiccant dryers, or nitrogen systems with dew point of -70°C or -40°C

Key Features

- Dew Point Range:
 - o -110°C to +20°C | -166°F to +68°F or
 - o -80°C to +20°C | -112 to +68°F
- IP65 rating
- Accuracy:
 - +/- 2°C for dew points between +20 to -80°C
 - o +/- 3°C for dew points between -80 to -110°C
- Power Supply: 10 ... 30 VDC
- Output:
 - Digital Modbus and
 - o Analog 4-20mA
- Measure:
 - Pressure Dew Point (PDP), Relative Humidity (RH) and Temperature.
 - Optional: Pressure
- Alarm relay only available on the 'Dew Point Sensor with Display'

About

This precision dew point sensor is ideal for compressed air and inert gas systems up to 4 Mpa (600psi). The optional integrated pressure sensor makes measuring simpler and easier to manage, reducing wiring and installation costs.

The alumina sensor is suited to dew points down to -110°C (-166°F). It has excellent accuracy, response speed, long-term stability and antipollution ability.

The innovative temperature compensation algorithm and multi-point temperature compensation calibration reduced sensor drift, ensuring high-accuracy measurements over a wide temperature range.



Applications

- Manufacturing and industrial use
- Gas systems up to 4 Mpa (600psi)
- Permanent or temporary measurement
- Gas pressure up to 50 bar (725 psi)



More Info

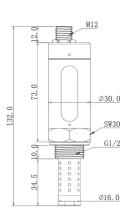


Specifications

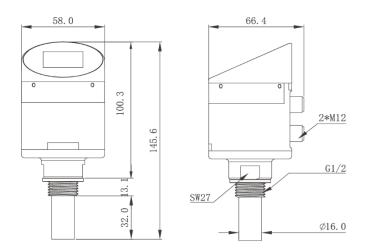
Sensor		Output	
Sensor Technology	Alumina sensor	Outputs	4-20 mA (3 wire) Modbus RTU (RS485)
Sensor Filter	Stainless steel mesh filter (filter level 70 um)	Current Output Resolution	0.002 mA
Contact us for other filter options		Current Output Temperature Drift	0.01% of span/°C
Measurement Range		Current Output Load	Max 500 ohm
Pressure Dew Point Range	80 to +20 °C (-112 to +68°F) 110 to +20°C (-166 to +68°F)	Alarm Relay Output	Not available
Gas Temperature Measurement Range	-40 to +100 °C -40 to +212°F	Standard Dew Point SensorSensor with Display	Normally open 32 VDC/500 mA
Pressure Measurement Rangewith pressure sensorwithout pressure sensor	0 to 17 bar 0 to 50 bar	Connector Standard Dew Point Sensor Sensor with Display	1 x 5 pin M12, female 2 x 5 pin M12, female
Accuracy		Power Supply	
Dew Point Accuracy +20 to -80°C -80 to -110°C	±2% ±3%	Power Requirement • Standard Dew Point Sensor	10 30 VDC Max 50 mA @ 24 V
 Temperature Accuracy 0 to + 50°C -40 to 0°C and +50 to +100 	±0.3°C 0°C ±0.5°C	Sensor with Display	16 30 VDC Max 150 mA @ 24 V
Pressure Accuracy (@23°C)	±0.3% F.S	Electromagnetic Compatibility	Meets IEC 61326-1
Pressure changes with temper	rature ±0.01 bar / 10°C	Other	
		Process Connection	G1/2" thread
Dew Point Measurement Response Time		Contact us for UNF process connection	
-50 to +20 °Ctd	20 sec [40 sec]	IP Rating	IP65
+20 to -50 °Ctd	1 min [3 min]	Casing	
Reference Conditions: 63% [90%], 20 °C, 1bar(a), 4L/min		Standard Dew Point SensorSensor with Display	Stainless Steel Anodised Aluminium
Working Environment		Display	
Operating Temperature	-30 to +70°C -22 to +158°F	Standard Dew Point SensorSensor with Display	NA 1.5" touch screen
Relative Humidity	0 to 95% RH	HS Code	9025.80.00
Minimum gas flow	> 1L /min		



Dimensions



Standard Dew Point Sensor (no display)

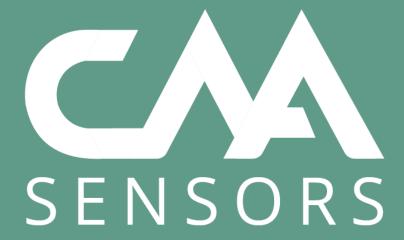


Dew Point Sensor with Display

How to Order

Find a Distributor: www.caasensors/distributors **Gas Type** 1 - Air 2 - Oxygen 3 – Nitrogen 4 – Hydrogen 5 – Carbon Monoxide **Integrated Connector & Cable** 6 - Carbon Dioxide **Pressure Sensor** 7 - Argon 1 - M12 Connector Only 0 - No 2 - M12 with 5M Cable 8 - Helium 1 - Yes D 0 **Product Prefix Dew Point Range Display** 0: -80 to +20°C (-112 to +68°F) 1: -110 to +20°C (-166 to 0 - No 1 - Yes





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Find a Distributor: www.caasensors/distributors