Dew point sensors

Maintaining the dew point of your air or gas system will prolong the lifetime of your equipment. Permanent monitoring enables you to detect and prevent problems on time.

VPInstruments' dew point transmitters are designed for ease of use, incorporating all the features needed to make installation and operation as simple as possible.
The calibrated transmitters can be instantly incorporated into VPVision, or they can be connected to your air or gas management and control system.

Product highlights

> 3-wire loop powered connection
> Dew point or ppm moisture content
> IP66 (NEMA 4X)
> Excellent sensor protection
> Fast response time

Application	D EW POINT	Connection	ORDER CODEs
extreme dry air moderate dry air	-100 ... +20°C | -148 ... 68°F -40 ... +60°C | -40 ...140 °F	4 ... 20 mA 2 wire 4 ... 20 mA 3 wire	VPA.8000.1003 VPA.8000.1013

Specifications | VPA.8000.1003 | VPA.8000.1013

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Performance		
Measurement range	-100 ... +20°C | -148 ... 68 °F dew point	-40 ... +60°C | -40 ... 140 °F dew point
Accuracy (dew point):	±2°C | ±3.6 °F dew point	±2°C | ±3.6 °F dew point
Response time	5 mins to T95 (dry to wet)	<10 sec typical (90% of the step change)
Electrical output/input		
Output signal	4 ... 20 mA (2-wire) current source, configurable over the entire range	4 ... 20mA (3-wire)
Supply voltage	12-28VDC	8-30VDC
Current consumption	20mA max	9mA + load current
Supply voltage influence	±0.005% RH/V	±0.005 % RH/V
Operating conditions		
Operating humidity	0 ... 100% RH	0 ... 95% RH (non-condensing)
Operating temperature	-40 ... +60°C | -40 ... 140 °F	-30 ... +70°C | -22 ... + 158 °F
Operating pressure	450 barg max.	20 barg maximum
Temperature coefficient	Temperature compensated across operating temperature range	±0.05 %/°C
Mechanical specifications		
Ingress protection	IP65 | NEMA 4	IP65 | NEMA 4
Housing material	Stainless steel	Nickel-coated brass
Dimensions	L=132mm x ø27mm | 5,2 x 1,1"	L=85mm, ø24mm (max) | 3,3 x 0,9"
Filter	HDPE Guard <10 µm	HDPE front filter
Process connection	5/8" - 18 UNF	G1/2 (1/2" BSP)
Connection	DIN connector	2 m | 6.5 Feet

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