

HTK 217 Dew Point Sensor



Made for your application

Designed to fit your needs

The dew point sensor HTK 217 provides reliable and long term stable dew point monitoring in industrial applications.

The newly developed sensor features improved signal and stability in demanding industrial applications.

Mode of operation

It's designed for OEM applications in desiccant and refrigeration dryers. Through our new sensor technology paired with a compact casing, HTK 217 can be offered at very attractive prices. This allows applications in smaller dryers and point of use dryers using a more energy efficient dew point control.

The measured dew point is output via the loop-powered 4 ... 20 mA signal, 3-wire 4 ... 20 mA output or through Modbus/RTU. Sensor parameters such as analogue output scaling, physical units, can be set ex factory.

Technical Data

Measuring range (Model depend.)	Dew point -50 ... +20°C Td/ Temperature -20 ... +50°C/ -30 ... +70 °C
Dew point sensor	Polymer
Temperature sensor	NTC
Pressure sensor	N/A
Accuracy	Dew point ±2°C Td/ Temperature 0.3°C
Operating pressure	-0.1 ... 5.0 MPa
Operating temperature (Medium)	-30 ... +70°C
Measured gases (Medium)	Non-corrosive gases
Response Time t90 (@ 4 l/min)	-40 °C Td -> -20 °C Td = 20 sec/ 0 °C Td -> -40 °C Td = 120 sec
Ambient temperature	-20 ... +50°C
Ambient humidity	0 ... 95 % rH
Supply Voltage	12 ... 30 VDC
Current consumption	30 mA @ 24 VDC 3-Wire, Modbus/RTU/ 20 mA @ 24 VDC 2-Wire
Output signals	4 ... 20 mA 3-Wire/ 4 ... 20 mA 2-Wire/ Modbus/RTU
Electrical connection	Cable, 1.8 m, open end wire, M8 connector, 4 poles
Process connection	G 1/2" thread (ISO 228/1)/ Stainless steel 1.4301 (SUS 304)
Casing material	Aluminum alloy
Classification	IP65
EMC	IEC 61326-1
Approval	-
Sensor protection	Sinter filter
Transport temperature	-30 ... +70°C
Storage temperature	-20 ... +50°C
Weight	198 g

Stated accuracy under following conditions:

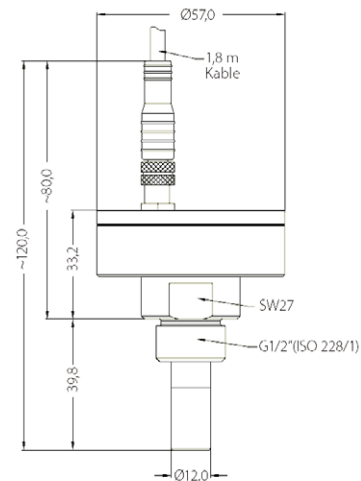
- Ambient temperature 23 °C ±3 °C
- Process temperature 23 °C ±3 °C
- Ambient humidity < 95 %, no condensation

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Benefits

- Small size makes it ideal for dryer installations
- Measures dew points down to -50 °C Td
- 2-wire, 3-wire output or Modbus/RTU
- IP65 casing provides robust protection in rough industrial environment
- Very fast response time ensures safe and reliable indication whenever dew points are out of valid ranges
- Can be installed directly into dryers through G 1/2" thread
- High accuracy of 1 ... 2 °C dew point
- Sensor withstands condensation
- M8 / M12 connector and cable with open wires

Dimension Drawing



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