DEW POINT SENSOR (-50 ... +50 ºC Td)
S217-OEM

COMPACT DESIGN
Makes it easy to fit into the
application

Made for your application —
designed to fit your needs

S217 FEATURES

COMPACT DESIGN
Makes it easy to fit into the application

PRECISE MEASUREMENT
Long lasting sensor accuracy

DEW POINT
In the range you need it

OEM SENSOR
Cost effective version

S217 BENEFITS

- Small size makes it ideal for dryer installations
- Measures dew points down to -50 °C Td
- 4 ... 20 mA 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

The SUTO dew point sensor S217 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.

It's designed for OEM applications in desiccant and refrigeration dryers. Through our new sensor technology paired with a compact casing, S217-OEM 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.
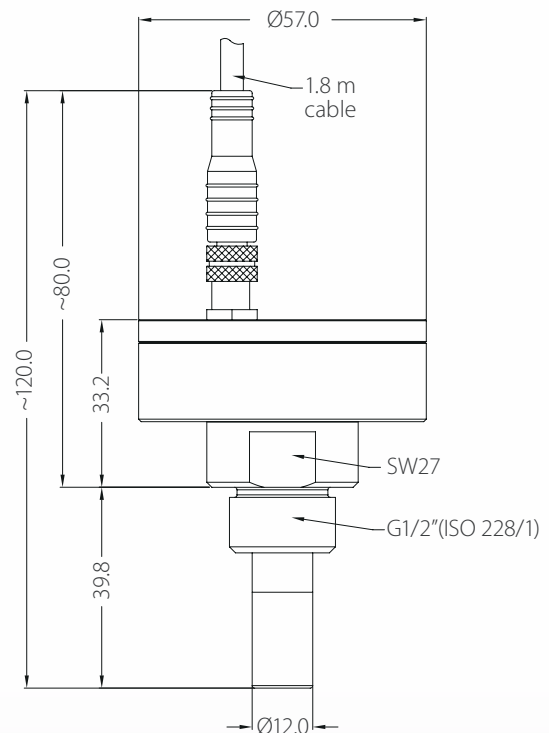
S217 TECHNICAL DATA

General Specifications	
Measurement range (model depending)	Dew point -50 ... +20 °C Td -20 ... +50 °C Td Temperature -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 (model depending)	30 mA @ 24 VDC 3-Wire, Modbus/RTU 20 mA @ 24 VDC 2-Wire
Output signals (model depending)	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

S217 DIMENSIONS

S217 ORDERING

Please use the following table to assist in placing your order with our sales staff.

S217-OEM DEW POINT SENSOR (-50 ... +50 ºC Td)	
Order No.	**Description**
S699 2170	S217-0, dew point sensor, 4 ... 20 mA (2-wire), -50 ... +20 °C Td, G 1/2" thread, 5.0 MPa, M8
S699 2173	S217-3, dew point sensor, 4 ... 20 mA (2-wire), -20 ... +50 °C Td, G 1/2" thread, 5.0 MPa, M8
S699 2174	S217-4, dew point sensor, 4 ... 20 mA (3-wire), -20 ... +50 °C Td, G 1/2" thread, 5.0 MPa, M8
S699 2175	S217-5, dew point sensor, 4 ... 20 mA (3-wire), -50 ... +20 °C Td, G 1/2" thread, 5.0 MPa, M8
S699 2178	S217-8, dew point sensor, Modbus/RTU, -50 ... +20 °C Td, G1/2" thread, 5.0 MPa, M8
S699 2179	S217-9, dew point sensor, Modbus/RTU, -20 ... +50 °C Td, G1/2" thread, 5.0 MPa, M8
Custom range	
A1390	S217, customized measuring range
High pressure option	
A1391	S217, high pressure option 35 MPa (350 bar)
Accessories	
A699 3491	Measuring chamber for easy installation in compressed air system up to 15 bar
A699 3493	Measuring chamber bypass type (in and out 6 mm hose connection)
C198 0002	Sinter cap stainless steel

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