

# DEW POINT SENSOR (-50 ... +50 °C 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  $-50\text{ }^{\circ}\text{C Td}$
- 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  $^{\circ}\text{C}$  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.

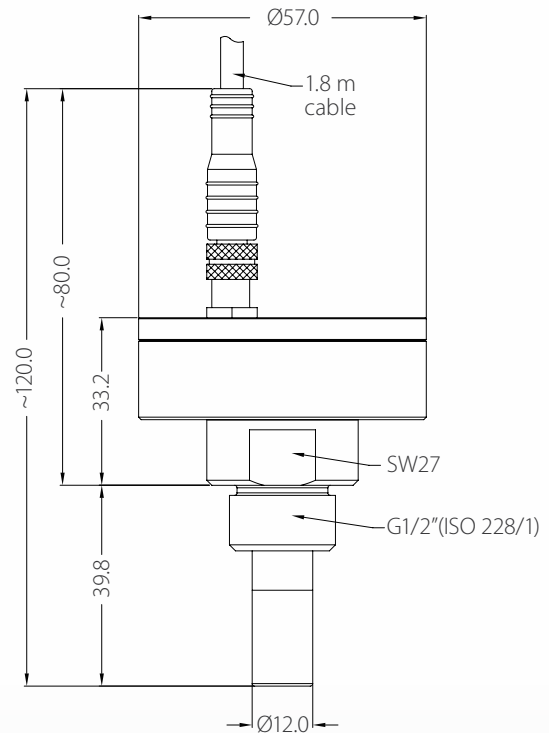
## S217 TECHNICAL DATA

General Specifications	
Measurement range (model depending)	Dew point -50 ... +20 °C Td
	Temperature -20 ... +50 °C Td
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



Visit our website or e-mail us:  
[www.suto-itec.com](http://www.suto-itec.com)  
[sales@suto-itec.com](mailto:sales@suto-itec.com)

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

S217-OEM DEW POINT SENSOR (-50 ... +50 °C 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
<b>Custom range</b>	
A1390	S217, customized measuring range
<b>High pressure option</b>	
A1391	S217, high pressure option 35 MPa (350 bar)
<b>Accessories</b>	
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