

# CAT

## COMPRESSED AIR TECHNOLOGY



The SUTO dew point sensor S 212 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 makes it an ideal choice for dew point measurements in desiccant dryers.

The measured dew point is output via a 4-20 mA signal output. The compact size of the sensor makes it an ideal choice for installations in tight environments. Sensor parameters such as analogue output scaling, alarm values, units, etc, can be easily changed by using SUTO service kit. This kit is used to connect the sensor to a PC for configuration changes.



Connection of S 212 with measuring chamber to compressed air

### Features

- Dew point sensor for low dew point applications down to -50°C
- Long term stability
- IP65 casing provides robust protection in rough industrial environment
- 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  $\pm 2^\circ\text{C}$  dew point

### Technical data S 212

Measuring range	Dew point	-50°C ... +20°C
	Temperature	-30°C ... +70°C
Dew point sensor	Polymer	
Temperature sensor	Pt100	
Pressure sensor	N/A	
Accuracy	Dew point	$\pm 2^\circ\text{C}$
	Temperature	0.3°C
Operating Pressure	-0.1 ... 5.0 MPa	
Operating Temperature (Medium)	-30°C ... +70°C	
Measured gases (Medium)	Non-corrosive gases	
Response Time t90 (@ 4 l/min)	-50°C -> 0°C: 20 sec 0°C -> -50°C: 180 sec	
Ambient Temperature	-20°C ... +50°C	
Ambient Humidity	0 ... 100 %rH	
Supply Voltage	12 ... 30 VDC	
Current consumption	30 mA @ 24 VDC	
Output signals	4 ... 20 mA 3-Wire	
Electrical connection	M12, 5 pole	
Process connection	G 1/2" thread (ISO 228/1) Stainless steel 1.4301 (SUS 304)	
Casing material	Zinc alloy	
Classification	IP65	
EMC	IEC 61326-1	
Approval	-	
Sensor protection	Sinter filter	
Transport Temperature	-30°C ... +70°C	
Storage Temperature	-20°C ... +50°C	
Weight	195 g	

Order no.	Description
S699 0412	S 212, dew point sensor including M12 connector (straight type), -50°C ... +20°C, G 1/2" thread
A699 4003	High pressure option 35 MPa (350 bar)