

S 212 DEW POINT SENSOR (-50 °C ... +20 °C)



The CS-iTEC 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 CS-iTEC 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 ± 2 °C dew point

Technical data S 212

Measuring range	
Dew point	-50 °C ... +20 °C
Relative humidity	0 ... 99,9%
Temperature	-30 °C ... +70 °C
Power supply	12 ... 30 VDC / 60 mA
Response time t90	0 °C ... -40 °C: 2 minutes -40 °C ... 0 °C: 20 sec
Accuracy	± 2 °C dew point @ -40 °C
Pressure range	-0.1 ... 5.0 MPa
Ambient conditions	-20 °C ... +50 °C
Output signal	4 ... 20 mA, 3-wire
Connection	M12, 5 pole
Casing	Process connection: stainless steel 1.4301(SUS 304) Casing: zinc alloy
Classification	IP 65
Process connection	G 1/2" thread (ISO 228/1) UNF 5/8" thread (on request)

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)