

FA 410 dew point sensor (-80 ... +20 °C)



FA 410
(-80 ... +20 °C)

FA 411
(-60 ... +20 °C)

The CS dew point sensors **FA 410** and **FA 411** provide 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.

Drifts caused by temperature changes, dust and aging are eliminated by the electronics providing reliable measurements. Recalibration interval thus could be increased to 2 years.

The measured dew point is output via a 4-20 mA signal output. The compact size of the sensors make them 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 service kit. This kit is used to connect the sensor to a PC for configuration changes.

Features

- Dew point sensor for low dew point applications down to -80 °C
- Long term stability
- 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 ± 2 °C dew point

Technical data FA 410 / FA 411

Measuring range	FA 410	FA 411
Dew point	-80 ... +20 °C	-60 ... 20 °C
Relative humidity	0 ... 99.9 %	0 ... 99.9 %
Temperature	-30 ... 70 °C	-30 ... 70 °C
Accuracy	± 2 °C dew point @ -50 °C	
Pressure range	-0.1 ... 5.0 MPa	
Power supply	12 ... 30 VDC / 60 mA	
Ambient conditions	0 ... 50 °C	
Response time t_{90}	0 ... -40 °C : 2 minutes -40 ... 0 °C : 20 sec	
Output signal	4 ... 20 mA, 3-wire	
Connection	M12, 5 pole	
Casing	Zinc alloy, PC + ABS	
Classification	IP65	
Process connection	G 1/2" thread (ISO 228/1) UNF 5/8" thread (on request)	

Order no.	Description
0699 0410	FA 410, dew point sensor including M12 connector (straight type), -80 ... +20 °C, G 1/2" thread
0699 0411	FA 411, dew point sensor including M12 connector (straight type), -60 ... +20 °C, G 1/2" thread
0553 0104	M12 connector with cable 5m, 5 pole, open ends for FA / VA 4xx
0553 0105	M12 connector with cable 10 m, 5 pole, open ends for FA / VA 4xx
0699 4003	High pressure option 35 MPa (350 bar)
0554 2005	Service kit for sensor configuration including software



Connection of FA 410 with measuring chamber to compressed air