

# FA 300 Ex (-80 ... +20 °C)



II 2G EEx ia IIC T4

The CS dew point sensor **FA 300 Ex** provides reliable and long term stable dew point monitoring in applications where explosive gases can occur from time to time or permanently. It's approved for use in explosive areas of zone 1.

**FA 300 Ex** may only be used in connection with approved sensor feeding instruments or safety barriers or galvanic separating elements with max.:

U<sub>0</sub>=30 V max.  
I<sub>0</sub> =100 mA max.  
P<sub>0</sub> =1 W max.

The measured dew point is output via a 4-20 mA signal output (loop powered).



LED display



Barrier

## Features

- Dew point sensor for low dew point applications down to -80 °C
- 4-20 mA loop powered
- Pressure proofed up to 30 MPa
- IP65 casing provides robust protection in rough industrial environment
- Very fast response time ensures safe and reliable measurements
- Can be installed directly into system through G 1/2" thread
- High accuracy of  $\pm 2$  °C dew point

## Technical data FA 300 Ex

Measuring range	
Dew point	-80 ... +20 °C
Relative humidity	0 ... 99.9 %
Temperature	-30 ... 70 °C
Accuracy	$\pm 2$ °C dew point @ -40 °C
Pressure range	-0.1 ... 30 MPa
Power supply	16 ... 30 VDC
Ambient conditions	0 ... 50 °C
Response time t <sub>90</sub>	< 30 sec (descending) < 10 sec (ascending)
Output signal	4 ... 20 mA, 2-wire
Connection	DIN 43650, 4 pole
Casing	PC
Classification	IP65
Protection class	II 2G EEx ia IIC T4
Process connection	G 1/2" thread (ISO 228/1)

Order no.	Description
0699 3070	FA 300 Ex, dew point sensor intrinsic safe, -80 ... +20 °C, G 1/2" thread
0500 0003	4 digit LED display for loop powered sensors, can be used in hazardous environment (FM, IECEx, ATEX)
0554 0104	Barrier for loop powered sensors