

FA 300 Ex dew point sensor, intrinsic safe (-80 ~ +20 °C_{td})



II 2G EEx ia IIC T4



The CS dew point transmitter **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 transmitter feeding instruments or safety barriers or galvanic separating elements with max.:

U₀ = 30 V max.

I₀ = 100 mA max.

P₀ = 1 W max.

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

Features

- ◆ Dew point transmitter for low dew point applications down to -80 °C_{td}
- ◆ 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 2 °C dew point (see chart below)

Technical data FA 300 Ex

Measuring range	-80 ~ +20 °C dew point 0~100 % rH -30 ~ 70 °C
Accuracy	2 °C dew point (see table below)
Pressure range	-0.1 ~ 30 MPa
Power supply	16 ~ 30 VDC
Ambient conditions	0 ~ 50 °C
Response time t ₉₅	< 30 sec (descending) < 10 sec (ascending)
Output signal	4 ~ 20 mA 2-wire
Relay	NO, 32 VDC, 500 mA
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 0370	FA 300 Ex, dew point transmitter intrinsic safe, -80 ~ +20 °C _{td} , G 1/2" thread