

FA 400 dew point sensor with display and alarm (-80 ... +20 °C)



FA 400 (-80 ... +20 °C)



FA 401 (-60 ... +20 °C)

The CS dew point sensor **FA 400** and **FA 401** 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.

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 integrated display shows online measurement values and alarm status. One alarm can be programmed which will activate a relay.

FA 400 / FA 401 feature a complete dew point meter with sensor, display, keyboard and alarm.

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.



Alarm adjustment at dew point sensor

Features

- Dew point sensor for low dew point applications down to -80 °C
- Long term stability
- Graphic display
- Relay output
- 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 400 / FA 401

| | FA 400 | FA 401 |
|--------------------|---|---------------|
| Measuring range | | |
| 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 / 100 mA | |
| Ambient conditions | 0 ... 50 °C | |
| Response time t90 | 0 ... -40 °C : 2 minutes -40 ... 0 °C : 20 sec | |
| Output signal | 4 ... 20 mA, 3-wire | |
| Relay | NO, 32 VDC, 500 mA | |
| Connection | 2xM12, 5 pole | |
| Casing | PC + ABS | |
| Classification | IP65 | |
| Process connection | G 1/2" thread (ISO 228/1) UNF 5/8" thread (on request) | |

Order no.

Description

| | |
|-----------|---|
| 0699 0402 | FA 400, dew point sensor including 2 x M12 connectors (straight type) -80 ... +20 °C, G 1/2" thread |
| 0699 0406 | FA 401, dew point sensor including 2 x M12 connectors (straight type) -60 ... +20 °C, G 1/2" thread |
| 0699 4003 | High pressure option 35 MPa (350 bar) |