



## FA 410 from -80 to 20 °C<sub>td</sub>

FA 410 – the ideal dew point sensor for monitoring membrane and adsorption dryers

Typical use in compressed air dryers/granulate dryers at very low dew points down to -80 °C.

### Recommendation:



Mounting with standard measuring chamber for compressed air up to 16 bar

**Advantage:** Easy installation via fast coupling.

### Special features

- Measuring range -80...20 °C<sub>td</sub>
- Extremely long-term stable
- Analogue output 4...20 mA
- Condensation insensitive
- Quick response time
- Pressure-tight up to 350 bar (special version)



Technical data FA 410	
<b>Measuring range:</b>	-80...20 °C <sub>td</sub> resp. -20...50 °C <sub>td</sub>
<b>Accuracy:</b>	± 1 °C at 20...-20 °C <sub>td</sub> ± 2 °C at -20...-50 °C <sub>td</sub> ± 3 °C at -50...-80 °C <sub>td</sub>
<b>Pressure range:</b>	-1...50 bar special version up to 350 bar
<b>Power supply:</b>	24 VDC (16...30 VDC)
<b>Protection class:</b>	IP 65
<b>EMC:</b>	according to DIN EN 61326
<b>Operating temp:</b>	-20...70 °C
<b>Connection:</b>	M12, 5-pole
<b>PC connection:</b>	SDI interface
<b>Analogue output:</b>	4...20 mA = -80...20 °C <sub>td</sub> resp. 4...20 mA = -20...50 °C <sub>td</sub>
<b>Burden for analogue output:</b>	< 500 Ohm
<b>Screw-in thread:</b>	G1/2"
<b>Dimensions:</b>	Ø 30 mm, length approx. 130 mm
<b>Via service software:</b>	- choose units: % RH, °C <sub>td</sub> , g/m <sup>3</sup> , mg/m <sup>3</sup> , ppm V/V - scaling change 4...20 mA
<b>Special version:</b>	4...20mA, 2-wire technology

Description	Order no..
FA 410 dew point sensor, -80...20°C <sub>td</sub> incl. inspection certificate	0699 0410
FA 410 dew point sensor, -20...50°C <sub>td</sub> incl. inspection certificate	0699 0412
<b>Connection cables:</b>	
Connection cable, length: 5 m	0553 0104
Connection cable, length: 10 m	0553 0105
<b>Options for FA 410:</b>	
Option special version up to 350 bar	0699 4003
Option output in mg/m <sup>3</sup> , g/kg, oder %RH, special scaling 4...20 mA	0699 4004
<b>Additional accessories:</b>	
Standard measuring chamber up to 16 bar	0699 3390
High-pressure measuring chamber up to 350 bar	0699 3590
Measuring chamber for respiratory air bottles up to 350 bar	0699 3790
CS Service Software for FA/VA 400 sensors including PC connection set, USB adapter and interface adapter to the sensor as well as CS Soft Professional software for data recording, please see page 11	0554 2005
Mains unit in wall housing 100-240 V, 10 VA, 50-60 Hz/24 VDC, 0.35 A	0554 0108
Mains unit on DIN rail 100-240 VAC / 24 VDC, 0.35 A	0699 3340
<b>Calibration:</b>	
Precision calibration at -40 °C <sub>td</sub> including ISO certificate	0699 3396
Precision calibration at 0 °C and 10 °C <sub>td</sub> including ISO certificate	3200 0003
Control and calibration set 11.3 % RH	0554 0002
Control and calibration set 33 % RH	0554 0004
Control and calibration set 75.3 % RH	0554 0005



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We have service partners in Denmark, Sweden, Norway, Finland & iceland.