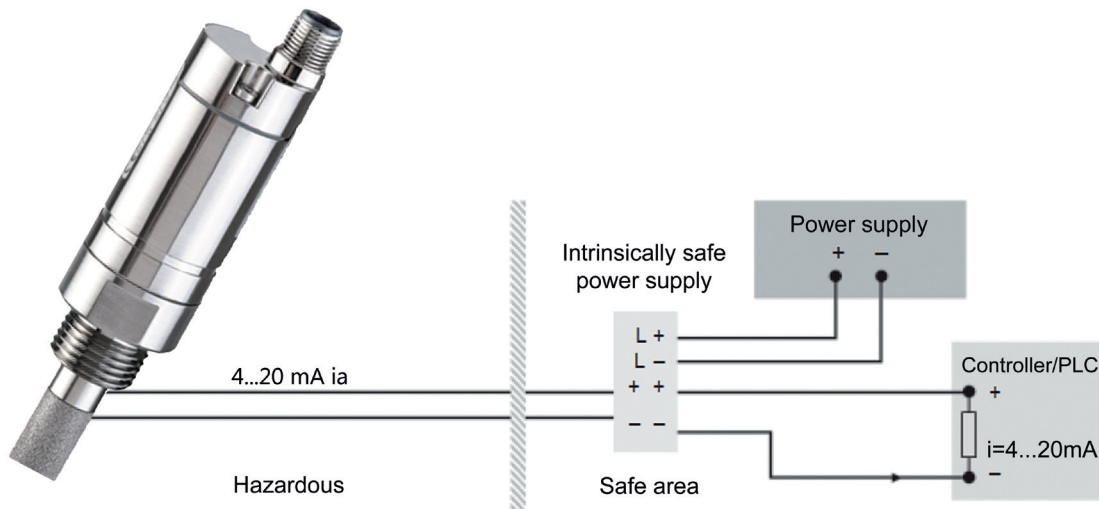




Dew point sensor FA 515 Ex for residual moisture measurement in explosive areas



The FA 515 Ex measures dew point resp. pressure dew point in potentially explosive atmospheres and can be used in many non-aggressive gases.

Typical applications:

- Air / Compressed air
- Argon
- Nitrogen
- Biogas
- Natural gas
- Hydrogen
- etc...

Approvals:



II 2G Ex ib IIC T4 Gb Zone 1, gas, intrinsically safe, Temp. 135°C



II 2D Ex ib IIIC T80°C Db Zone 21, dust, intrinsically safe, Temp. 80°C

FA 515 Ex may only be used in connection with approved Ex-rated power supplies or safety barriers or galvanic separating elements with max.:

$U_2 = 28 \text{ V max.}$
 $I_2 = 93 \text{ mA max.}$
 $P_2 = 0,65 \text{ W max.}$

Special features:

- Robust design
- Pressure-tight up to 500 bar
- Long-term stable humidity sensor, approved for years
- 4...20 mA analogue output in 2-wire technology
- Further parameters adjustable via software: % RH, g/m³, mg/m³, ppm V/V, g/kg
- **NEW:** Higher resolution of the sensor signal due to improved evaluation electronics

Technical data

FA 515 Ex

Measuring range: -80...20 °Ctd = 4...20 mA
Pressure range: -1...500 bar
Power supply: 24 VDC (10...30 VDC)
Accuracy: ± 1 °C bei -20...-20 °Ctd
 ± 2 °C bei -20...-50 °Ctd
 ± 3 °C bei -50...-80 °Ctd

Output: 4...20 mA in 2-wire technology

Protection class: IP 65

EMV: according to DIN EN 61326-1

Operating temp.: -20...70 °C

Storage temp.: -40...80 °C

Burden for analogue output: < 500 Ω at 24V

Screw-in thread: G 1/2" stainless steel, optional 5/8" UNF

Connection: M12, 4-pin

Sensor protection: Sintered filter 50 µm stainless steel

Descriptiomn	Order no.
FA 515 Ex pressure dew point meter	0699 5515
Measuring chamber up to 350 bar	0699 3590
Measuring chamber made of stainless steel	0699 3290
Special scaling	Z699 0514
Analogue output to other humidity parameters: % rF, g/m ³ , mg/m ³ , ppm V/V, g/kg	
Intrinsically safe power supply, safety barriers	0554 3071