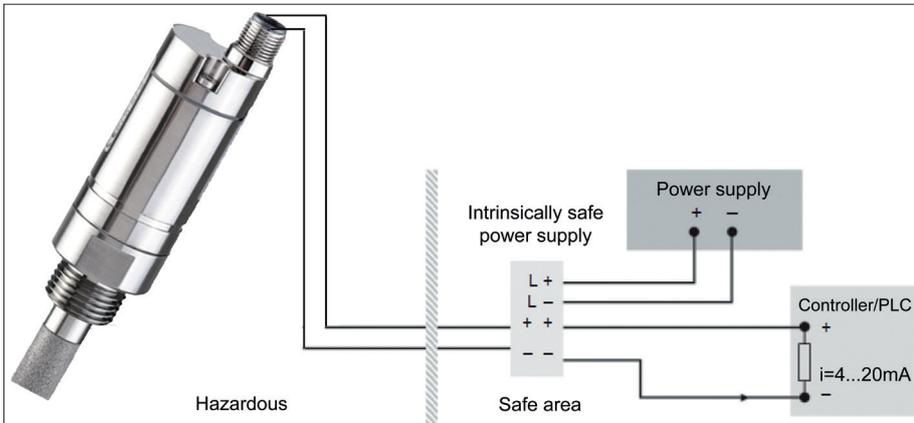




## FA 515 Ex Dew point sensor - For residual moisture measurement in potentially explosive atmospheres



The FA 515 Ex measures dew point or pressure dew point in potentially explosive atmospheres and can be used in many nonaggressive gases.

### Typical applications:

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

### Special features:

- Robust design
- Pressure-tight up to 500 bar
- Humidity sensor with long-term stability, tried-and-tested for years
- 4...20 mA analogue output in 2-wire technology
- **NEW:** Higher resolution of sensor signal due to the improved evaluation electronics

### 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<sub>i</sub> = 28 V max.  
I<sub>i</sub> = 95 mA max.  
P<sub>i</sub> = 0.65 W max.

DESCRIPTION	ORDER NO.
FA 515 Ex pressure dew point meter	0699 5515
High pressure measuring chamber for compressed air up to 350 bar	0699 3590
Stainless steel bypass measuring chamber for dew point measurement in gases under pressure	0699 3290
Special scaling, analogue output to other humidity parameters: % RH, g/m <sup>3</sup> , mg/m <sup>3</sup> , ppm V/V, g/kg	Z699 0514
Connection cable FA 515 EX, for laying in intrinsically safe circuits, ends open on both sides (cross-section 4x0.75 mm <sup>2</sup> ), cable length of free choice	0553 5126
Shielded connection cable FA 515 EX, for laying in intrinsically safe circuits, ends open on both sides (cross-section 4x0.75 mm <sup>2</sup> ), cable length of free choice	0553 5136
Intrinsically safe power supply, safety barrier	0554 3071

### TECHNICAL DATA FA 515 EX

<b>Measuring range:</b>	-80...+20 °Ctd = 4...20 mA
<b>Pressure range:</b>	-1...500 bar
<b>Power supply:</b>	24 VDC (18...28 VDC)
<b>Accuracy:</b>	± 1 °C at -20...+20 °Ctd ± 2 °C at -50...-20 °Ctd ± 3 °C at -80...-50 °Ctd
<b>Output:</b>	4...20 mA in 2-wire technology
<b>Protection class:</b>	IP 65
<b>EMC:</b>	In acc. with DIN EN 61326-1
<b>Operating temperature:</b>	-20...+50 °C for II 2D Ex ib IIIC T80°C Db -20...+70 °C for II 2G Ex ib IIC T4 Gb
<b>Storage temperature:</b>	-40...+80 °C
<b>Burden for analogue output:</b>	< 500 Ω at 24 V
<b>Screw-in thread:</b>	Stainless steel 1.4404: G 1/2", optional: UNF 5/8", NPT 1/2"
<b>Connection:</b>	M12, 4-pin
<b>Sensor protection:</b>	Sinter filter 50 µm stainless steel