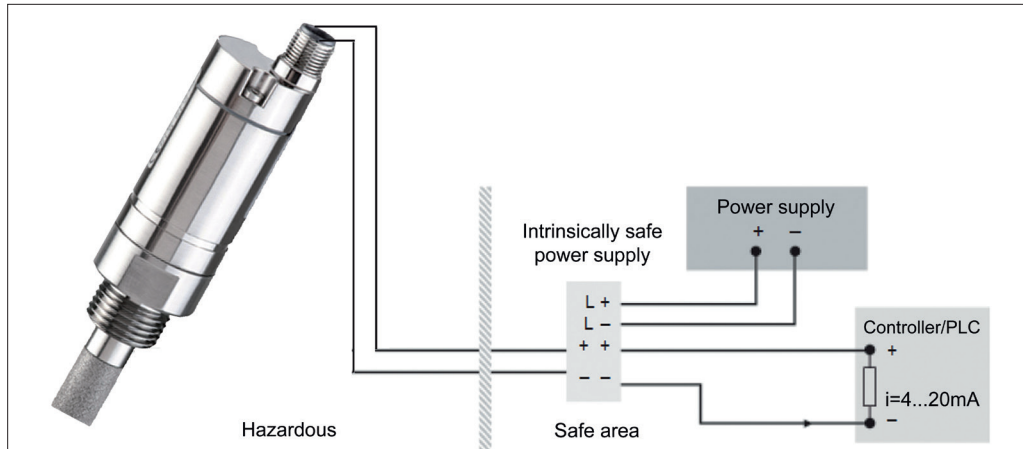




## FA 515 Ex dew point sensor - for residual moisture measurement in potentially explosive atmospheres



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

### Typical applications:

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

### Special features:

- Robust design
- Pressure-tight up to 7251 psi
- Humidity sensor with long-term stability, tried-and-tested for years
- 4...20 mA analog 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. 275 °F



II 2D Ex ib IIIC T80°C Db

Zone 21, dust, intrinsically safe, temp. 176 °F

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 5076 psi	0699 3590
Stainless steel bypass measuring chamber for dew point measurement in gases under pressure	0699 3290
Special scaling, analog 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 installation in single-safety circuits, open ends on both sides, (cross section 4 x 0.75 mm <sup>2</sup> ) - cable length freely selectable	0553 5126
Connection cable shielded FA 515 EX - for installation in single-safety circuits, open ends on both sides, (cross section 4 x 0.75 mm <sup>2</sup> ) - cable length freely selectable	0553 5136
Intrinsically safe power supply, safety barrier	0554 3071

### TECHNICAL DATA FA 515 EX

<b>Measuring range:</b>	-112 to 68 °Ftd = 4...20 mA
<b>Pressure range:</b>	-14...725 psi
<b>Power supply:</b>	24 VDC (18...28 VDC)
<b>Accuracy:</b>	± 1.8 °F to 122...-4 °Ftd ± 3.6 °F to -4...-58 °Ftd ± 5.4 °F to -58...-112 °Ftd
<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>	-4...122 °F for II 2D Ex ib IIIC T80°C Db -4...158 °F for II 2G Ex ib IIC T4 Gb
<b>Storage temperature:</b>	-40...+176 °F
<b>Burden for analog 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