



FA 400 from -80 to $20^{\circ}\text{C}_{\text{td}}$

FA 400 is the ideal dew point measuring instrument with integrated display and alarm relay for refrigeration, membrane and adsorption dryers

It replaces the worldwide proven instrument FA 200. The threshold value can be easily adjusted via the keypad.



Alarm adjustable via keypad

Special features

- $-80...20^{\circ}\text{C}_{\text{td}}$
- Integrated display
- Threshold value adjustable via keypad alarm relay (max. 60 VDC, 0.5 A)
- Pressure-tight up to 350 bar (special version)
- Extreme long-term stability
- Quick response time
- 4...20 mA analogue output
- 2 versions: Refrigeration dryers and adsorption dryers



| Description | Order no. |
|---|-----------|
| FA 400 dew point sensor for refrigeration dryers, $-20...50^{\circ}\text{C}_{\text{td}}$ | 0699 0401 |
| FA 400 dew point sensor for adsorption dryers, $-80...20^{\circ}\text{C}_{\text{td}}$ | 0699 0402 |
| FA 400 dew point sensor, replacement of FA 200, $-60...30^{\circ}\text{C}_{\text{td}}$ | 0699 0403 |
| Connection cables: | |
| Connection cable, length: 5m (power supply and analogue output) | 0553 0104 |
| Connection cable, length 10m (power supply and analogue output) | 0553 0105 |
| Alarm cable, length: 5m | 0553 0106 |
| Alarm cable, length: 10m | 0553 0107 |
| Options for FA 400: | |
| Special version FA 400 up to 350 bar | 0699 4003 |
| Special scaling, output in ppm V/V, % RH, mg/m^3 | 0699 4004 |
| Additional accessories: | |
| Standard measuring chamber for compressed air up to 16 bar | 0699 3390 |
| 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, see page 11 | 0554 2005 |
| Mains unit in wall housing 230 VAC/24 VDC with alarm processing | 0699 3495 |
| Calibration: | |
| Precision calibration at $-40^{\circ}\text{C}_{\text{td}}$ including ISO certificate | 0699 3396 |
| Precision calibration at 0°C and $10^{\circ}\text{C}_{\text{td}}$ 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 |

Technical data FA 400

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|-------------------------------------|---|
| Measuring range: | $-80...20^{\circ}\text{C}_{\text{td}}$, $-60...30^{\circ}\text{C}_{\text{td}}$, $-20...50^{\circ}\text{C}_{\text{td}}$ resp. 0...100 % RH |
| Accuracy: | $\pm 1^{\circ}\text{C}$ at $20...-20^{\circ}\text{C}_{\text{td}}$ $\pm 2^{\circ}\text{C}$ at $-20...-50^{\circ}\text{C}_{\text{td}}$ $\pm 3^{\circ}\text{C}$ at $-50...-80^{\circ}\text{C}_{\text{td}}$ |
| Pressure range: | $-1...50$ bar special version up to 350 bar |
| Power supply: | 24 VDC (16...30 VDC) smoothed |
| Protection class: | IP 65 |
| EMC: | according to DIN EN 61326 |
| Operating temp.: | $-20...50^{\circ}\text{C}$ |
| Connection: | 2 x M12, 5-pole for analogue output and alarm output |
| PC connection: | SDI interface |
| Output: | 4...20 mA = $-80...20^{\circ}\text{C}_{\text{td}}$ 4...20 mA = $-60...30^{\circ}\text{C}_{\text{td}}$ 4...20 mA = $-20...50^{\circ}\text{C}_{\text{td}}$ |
| Burden for analogue output: | < 500 Ohm |
| Alarm relay: | NO, max. 60 VDC, 0.5 A |
| Screw-in thread: | G1/2" |
| Dimensions: | $\varnothing 65$ mm, length approx. 160 mm |
| Output signals via software: | % RH, $^{\circ}\text{C}_{\text{td}}$, g/m^3 , mg/m^3 , ppm V/V |