

## 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

- $-80\text{...}20^{\circ}\text{C}_{\text{td}}$
- 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
- $4\text{...}20$  mA analogue output
- 2 versions: Refrigeration dryers and adsorption dryers



Description	Order no.
FA 400 dew point sensor for refrigeration dryers, $-20\text{...}50^{\circ}\text{C}_{\text{td}}$	0699 0401
FA 400 dew point sensor for adsorption dryers, $-80\text{...}20^{\circ}\text{C}_{\text{td}}$	0699 0402
FA 400 dew point sensor, replacement of FA 200, $-60\text{...}30^{\circ}\text{C}_{\text{td}}$	0699 0403
<b>Connection cables:</b>	
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
<b>Options for FA 400:</b>	
Special version FA 400 up to 350 bar	0699 4003
Special scaling, output in ppm V/V, % RH, $\text{mg}/\text{m}^3$	0699 4004
<b>Additional accessories:</b>	
Standard measuring chamber 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 13	0554 2005
Mains unit in wall housing 100-240 V, 10 VA, 50-60 Hz/24 VDC, 0.35 A	0554 0108
Power supply 100-240 VAC/24 VDC, 0.35 A for FA/VA 400 Series, 2 m cable	0554 0107
<b>Calibration:</b>	
Precision calibration at $-40^{\circ}\text{C}_{\text{td}}$ including ISO certificate	0699 3396
Precision calibration at $0^{\circ}\text{C}$ 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

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