



## Dew point sensor FA 500 from -80 to 20°Ctd

FA 500 is the ideal dew point measuring instrument with integrated display and alarm relay for refrigeration, membrane and desiccant driers.



### Special features:

- 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 driers and desiccant driers
- NEW: Modbus-RTU interface
- NEW: Higher resolution of sensor signal caused by the improved evaluation electronics
- · NEW: Sensor diagnosis on site with a portable device or CS Service Software

The integrated keys enable an easy menu-driven operation





#### **Upper connection:**

Power supply 4...20 mA output Modbus-RTU output

#### Lower connection:

Alarm relay

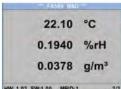




# Dew point **Compressed air quality**

## FA 500 - easy operation via keys at the display

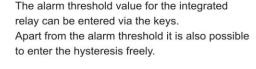


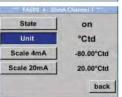


	*** FA	500 R&D	***	
	0.0321		g/kg	
	50	.88	ppm	
	0.0522		hPa	
	-47	.80	°Ctd	
HW: 1.02	SW:1.00	MBID:1		3/3

The integrated display shows the dew point in big figures as well as further humidity parameters on two more display pages. By means of the arrow key it can be browsed between the display pages.









The 4...20 mA analogue output can be scaled freely resp. also allocated to one further parameter, e. g.  $g/m^3$ .



If requested the sensor can also reckon back from the measured pressure dew point to the atmospheric dew point upon entering the system pressure of the compressed air plant and the reference pressure (atmospheric pressure).

Description			
FA 500 dew point sensor for refrigeration driers, -2050 °Ctd			
FA 500 dew point sensor for desiccant driers, -8020 °Ctd			
FA 500 dew point sensor for desiccant driers, -6030 °Ctd			
Connection cables:			
Connection cable, 5 m			
Connection cable, 10 m			
Alarm cable, length: 5 m			
Alarm cable, length: 10 m			
Options for FA 500:			
Option max. pressure FA5xx 350 bar			
Option max. pressure FA5xx 500 bar			
Option special scaling FA5xx 420 mA= g/m³, ppm etc.			
Option connection thread FA5xx, 5/8" UNF			
Option connection thread FA5xx, 1/2" NPT			
Option surface condition FA5xx, free of oil & grease			
M-Bus board for VA500/520 and FA500			
Additional accessories:			
Standard measuring chamber up to 16 bar			
High pressure measuring chamber up to 350 bar			
CS Service Software for FA/VA sensors incl. PC connection set,			
USB connection and interface adapter to the sensor			
Mains unit in wall housing for maximum 2 sensors of the series VA/FA 5xx, 100-240 V, 23 VA, 50-60 Hz / 24 VDC, 0.35 A			
AC adapter plug 100-240 V AC/ 24 V for VA/FA 500/520			
Calibration:			
Precision calibration at -40°Ctd or +3°Ctd including ISO certificate			

<b>Technical</b>	data FA 500	
Measuring range:	-8020 °Ctd, -6030 °Ctd, -2050 °Ctd, resp. 0100% RH	
Accuracy:	± 1°C bei +5020°Ctd ± 2°C bei -2050°Ctd ± 3°C bei -5080°Ctd	
Pressure range:	-150 bar special version up to 350 bar	
Power supply:	24 VDC (1830 VDC) smoothed	
Protection class:	IP 65	
EMV:	according to DIN EN 61326	
Operating temp:	-2050 °C	
Connection:	2 x M12, 5-pole for ana- logue output, Modbus-RTU and alarm output	
PC connection:	Modbus-RTU interface (RS 485)	
Output: (3-wire)	420 mA = -8020°Ctd 420 mA = -6030°Ctd 420 mA = -2050°Ctd	
Burden for ana- logue output:	< 500 Ω	
Alarm relay:	NC, max.60 VDC, 0.5 A	
Screw-in thread:	G 1/2"	
Dimensions of housing	76,5 x 85 x 75 (WxHxD)	