

11 Technical data

PRESSURE DEW POINT MONITORING DEVICE TPK 20	
Measuring range	-20 ... +40 °C tpd
Sensor element	Capacitive Polymer sensor
Application temperature	-10 ... +50 °C
Accuracy (at 23 °C)	≤ ±1 K (tpd -10.0 ... +40.0 °C) ≤ ±2 K (tpd -20.0 ... -10.0 °C) ≤ ±3 K (tpd -30.0 ... -20.0 °C)
Operating pressure	0 Pa ... 1.7 MPa (17 bar)
Media compatibility	Clean, oil free compressed air (filtered and dried, ISO 8573-Class 2-4-2)
Display	Red LED-Display, 14 mm
Measured value	4-digits with units °C / °F, Resolution 0.1 °C tpd
Operation	4 Keys (Soft touch keyboard)
Functions	2 adjustable alarm-limits with Hysteresis, display switchable between °C or °F
Relay output	2 potential isolated Normally open 36 V DC, 24 V AC, max. 2 A surge suppression with Varistor 39 V
Analog output	4 ... 20 mA / -20 ... +40 °C tpd
Serial interface	RS232 / RS485, 4800 Bd, 8N1
Ext. Signal generator	15 V / 50 mA
Electrical connection	15-pin SUB-D socket
Sensor protection filter	Stainless steel sinter filter 40 µm
Measuring chamber	Attached, with diverting throttle, pre-adjusted at 60 NI / h
Compressed air connection	3/8" internal threads
Power supply	24 V DC, max. 300 mA, reverse polarity protected, DC-plug 2.1 mm
Plug-in power supply unit	90 - 240 V / 7 VA max., output voltage 24 V DC
EMV Noise emission	EN 61000-6-3:2001
EMV Noise immunity	EN 61000-6-2:2001
Housing	Electronics: Plastic, IP 20 Measuring chamber: Aluminium
Guarantee	24 Months
Scope of supply	Instrument with attached measuring chamber/Diverting throttle, plug connection NW 7.2 mm, plug-in power supply unit, Operating manual, Test certificate
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11.1 Drawing

