

METPOINT® DPM

STATIONARY DEWPOINT MEASURING DEVICE

Moisture in compressed air is a well-known problem and can lead to severe consequential damage. Malfunctions in production plants may have serious consequences, particularly in demanding applications. Costly standstills and increased expenses for rejects and quality assurance quickly add up.

With the temperature, the relative humidity and the dewpoint (down to - 60 °C td), the stationary dewpoint measuring device precisely measures the critical parameters in compressed air and other gases.



Measurement is carried out continuously and the data are shown on the display and stored automatically in the data logger. When the adjusted limit value is exceeded, an alarm relay is triggered. The user will directly receive a message when the process parameters are critical.

With this, the stationary dewpoint measuring device makes an excellent contribution to the monitoring of the compressed air quality.

+1:

+2:

+3:

+4:

+5:



PROCESS RELIABILITY THROUGH CONTINUOUS ONLINE MEASUREMENT

UNIVERSALLY EMPLOYABLE

PLUG & PLAY

INCL. A DATA LOGGER (1 MILLION MEASURING VALUES)

SIMPLE PC CONNECTION (USB)*

* optional software will be required

METPOINT® DPM STATIONARY DEWPOINT MEASURING DEVICE



TECHNICAL DATA DISPLAY UNIT DD109

Dimensions wall-mounted housing	Measurements: 118 mm x 115 mm x 93 mm
Dimensions switch cabinet installation	Measurements: 92 mm x 92 mm
Housing protection class	IP 65
Operating temperature	0 ... 50 °C
Transport temperature	-20 ... 70 °C
Sensor inputs	2 inputs for dew point and consumption probes (optional 2 analogue inputs)
Interface	USB
Keypad	4 Keys
Power supply	100 ... 240 VAC / 50-60 Hz / 10 VA
Display	Graphic display, 160 x 100 pixels
Alarm output	2 relays, 230 VAC, 3 A, potential-free, change-over contact
Analogue output	Connection of the 4...20 mA signals of the dew point and consumption sensors, (max. burden <500 Ohm)
Integrated data logger	<ul style="list-style-type: none"> • Up to 1000000 values • Recording interval, min. 1 sec., max. 59 min. 59 sec.



TECHNICAL DATA SENSOR DP109

Measuring ranges	-60 ... 30 °C td -30 ... 70 °C measuring gas temperature 0 ... 100 % RH
Pressure range	Installation without measuring chamber: -1 to 16 bar Installation with a measuring chamber: up to 16 bar
Measuring-chamber connection	Internal thread G½"/G¼" Plug nipple NW 7.2; G¼" outside, for quick-release coupling.
Purge-air demand	1 l/min when employing the measuring chamber (for 7 bar)
Weight (without measuring chamber)	190 g
Protection class	IP 65
Accuracy	± 1.0 °C td (0 ... 30 °C td) typical ± 2.0 °C td at -40 °C td
Response time t95	<30 Sek. (dry) <10 Sek. (wet)
Power supply	10 ... 30 VDC
Burden for analogue output	≤ 500 Ohm
Operating temperature	-30 ... 70 °C ambient temperature (ideal 0 ... 50 °C)
Storage temperature	-40 ... 80 °C
EMC	DIN EN 61326
Fixing thread	G½" stainless steel
Housing material	Zinc alloy, PC, ABS
Sensor protection	Sinter filter 50 µm, stainless steel
Connection	M12, five-pole



METPOINT® DPM is also available for mobile applications.



Subject to technical changes without prior notice. Specifications do not represent physical characteristics in the sense referred to in the German Civil Code.

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