

METPOINT® DPM

MOBILE

DEWPOINT MEASURING

Moisture in compressed air is a well-known problem and can lead to severe equipment 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 (up to 50 bar), the mobile, cordless dewpoint measuring device precisely measures the critical parameters in compressed air and other gases.



With this, the mobile dewpoint measuring device makes an excellent contribution to the monitoring of compressed-air quality at stationary and mobile compressed-air generators, and in mobile applications, for example buses and trains.

+1:

+2:

+3:

+4:

+5:



FAST RESPONSE TIME

PLUG & PLAY

EASY HANDLING

LONG BATTERY LIFE

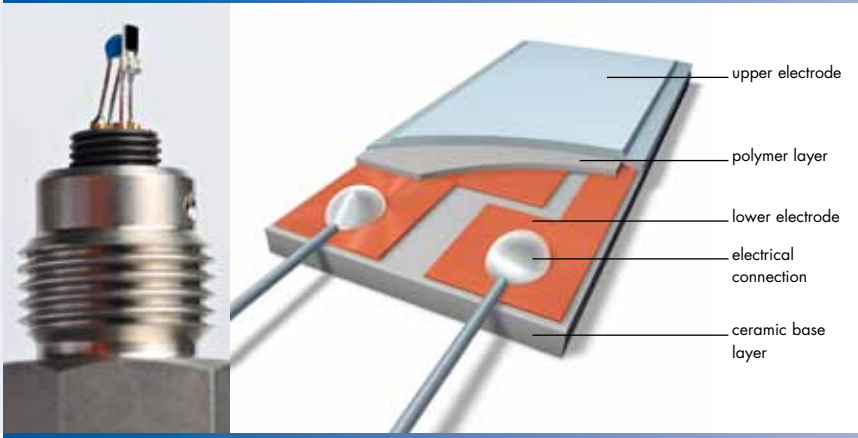
**FOR MOBILE AND STATIONARY
COMPRESSED AIR INSTALLATIONS**

METPOINT® DPM

MOBILE DEW POINT MEASURING



THIS IS HOW THE MOBILE DEW POINT MEASURING DEVICE WORKS









Function

Depending on the water vapour partial pressure, more or fewer water molecules enter the porous polymer layer. The resulting changing capacity of the sensor is transformed into a moisture value and is shown on the display

TECHNICAL DATA

Measuring ranges	-80 ... 50 °C td, -20 ... 70 °C, 0 ... 100 % rel.h. Further parameters can be programmed by BEKO TECHNOLOGIES upon customer request: ppmV/V, atmospheric dew point, g/m ³ , mg/m ³ , g/kg, or °F
Accuracy	± 0.5 °C td (-10... 50 °C td), typical ± 2 °C td at -40 °C td
Pressure range	Installation without measuring chamber: -1 to 50 bar Installation with a measuring chamber: up to 16 bar
Operating temperature	-20 ... 70 °C measuring gas temperature, 0 ... 50 °C ambient temperature
Measuring-chamber connection	Internal thread G½" / G¼" Plug nipple NW 7.2; G¼" external, for quick-release coupling
Screw-in thread	R½" stainless steel
Purge air demand	16 l/min when the measuring chamber is installed (for 7 bar)
Housing material	Polycarbonate
Protection class	IP 65
EMV	DIN EN 61326
Weight	340 g (without measuring chamber)
Power supply	Internal NiMH battery for approx. 15 h of operation, indication "Low Bat. Max 2 h", residual operating time, charging time: max. 2 h
Power supply unit	110 - 240 VAC, 50 - 60 Hz, 0.2 A 24 VDC, 300 mA Safety category 2, for application in dry places only
Continuous operation	Long-term measurement with a power supply unit
Display	Single-line, resolution 0.1 Dew point (° C td), relative humidity (% rel.h.), Temperature (° C or °F), depending on the factory setting
Display functions	Min., max., battery status
Field of application	Designed for measurement downstream of a compressed air dryer (danger of contamination when employees upstream of a compressed-air dryer)

DELIVERY SCOPE DP 207 SET

	Dew point measuring device DP 207 up to 50 bar, including battery
	Mobile measuring chamber up to 16 bar with a quick-release coupling
	Diffusion-resistant Teflon pipe 1 m long with a quick coupling and a plug nipple
	Power supply unit 24 VDC / 110 - 240 VAC, 50 - 60 Hz for charging the battery and long-term measurement
	Control and calibration set 11.3 % rel.h.
	Transport case

METPOINT® DPM is also available for stationary 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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