

# 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**

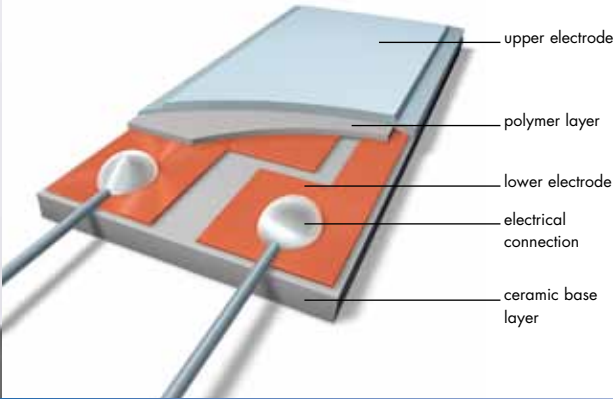
**FOR MOBILE AND STATIONARY  
COMPRESSED AIR INSTALLATIONS**

# METPOINT® DPM

## MOBILE DEWPOINT 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

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

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

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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