

Portable Dew Point Meter DDM

Relative humidity, temperature and dew point measurement with one instrument.

Product description:

The portable dew point meter DDM is the ideal instrument for service and is supplied in a convenient case. Thanks to the internal rechargeable battery it measures quickly and reliably for a duration of up to 15 hours.

Keeping a specific dew point is requirement for a trouble free plant operation. The mobile dew point measuring instrument DDM is the ideal service instrument in a handy case. It measures relative humidity, temperature and the dew point up to 50 bars, easy, fast without annoying cable. With the pc software the measured data can be recorded in an Excel file and further parameters can be selected: ppm, g/m³, mg/m³, g/kg, atmospheric dew point. Special version up to 350 bars.

Optional available humidity reference cells for adjustment and calibration of humidity measuring instruments.



Dew Point Meter DDM

Features:

Large measuring range to -80°C_{td}
 (adsorption, membrane, refrigeration dryers).

Set DDM consisting of:

- Portable dew point meter DDM up to 50 bar, including rechargeable battery
- Mobile measuring chamber up to 16 bar
- Diffusion-tight teflon hose 1 m with fast coupling at both ends
- Power supply 24 VDC, 230 VAC for rechargeable battery and long-term meas.
- Control and calibration set 11.3% RH
- Transport case



Dew Point Meter DDM in transport case

Portable Dew Point Meter

Technical Data

| Portable Dew Point Meter | |
|---------------------------|---|
| Display einzellig: | Dew point ($^{\circ}\text{C}_{\text{td}}$ resp. $^{\circ}\text{F}$) / relative humidity (% RH) / temperature ($^{\circ}\text{C}$ resp. $^{\circ}\text{F}$), free selectable |
| Displayfunktionen: | Max. / Min. / state of battery |
| Messbereich: | $-80\dots50^{\circ}\text{C}_{\text{td}}$ / $-20\dots70^{\circ}\text{C}$ / 0 to 100% RH |
| Druckbereich: | -1 to 50 bar standard / -1 bis 350 bar high-pressure version |
| PC-Anschluss: | SDI interface |
| Genauigkeit: | $\pm 0,5^{\circ}\text{C}_{\text{td}}$ at $-10\dots50^{\circ}\text{C}_{\text{td}}$, typical $\pm 2^{\circ}\text{C}_{\text{td}}$ at $-40^{\circ}\text{C}_{\text{td}}$ |
| Stromversorgung: | Internal rech. batteries (4x 1,5 NiMh AAA) for approx. 15 h continuous operation |
| Einsatztemperatur: | $-20\dots70^{\circ}\text{C}$ |
| EMV: | DIN EN 61326 |
| Einschraubgewinde: | 1/2" stainless steel |
| Gehäuse: | Polycarbonate |

Additional accessories, not included in the set

Portable dew point meter DDM up to 350 bar including rechargeable battery

High-pressure measuring chamber up to 350 bar

Precision calibration at $-40^{\circ}\text{C}_{\text{td}}$ with ISO certificate

Measuring chamber for atmospheric dew point

Measuring chamber for granulate dryers for minimum over pressure

Measuring chamber for respiratory air bottles up to 350 bar

Control and calibration set 33% RH

Control and calibration set 75,3% RH

Humidity reference cells for adjustment and calibration of humidity measuring instruments

- Reference cell for relative air humidity
- 7 versions with different salt fillings ranging from 11 % to 97 % RH
- High accuracy guaranteed by chemically straight salts
- Integrated Teflon membrane as separating barrier between salt solution and measuring chamber
- Optimized housing with favourable ratio of membrane surface to inner volume
- Transparent design for visual controlability of saturation and liquid level
- Temperature range from 0 to $+50^{\circ}\text{C}$

