

3.03.1



Special features:

- Easy and simple to operate
- Accurate results
- Speedy repetition of operation
- Uneffected by corrosive atmospheres
- No problems with dusty atmospheres
- Robust construction

Dewpoint measuring instrument Dewchecker 1.0

Technical Data:

Construction: Transportable Instrument (sheet-steel housing)

Dimensions: 330 x 310 x 240 mm (w x h x d)

Power supply: 115 or 230 Vac ± 10 % / 50 - 60 Hz

Weight: approx. 20 kg

Operation range: -20 to +20 °C

Application: Dewpoint measurement of gases

Operating principles:

A sample of the gas to be measured is drawn into the measuring chamber. The surface of a mirror in the chamber is cooled using a thermo-electric cooling element until condensation occurs. This is readily and accurately observed since the mirror is constructed to have the dew form a pattern rather than overall. The temperature of the cooler part of the mirror is continously indicated and the dewpoint can be read as soon as the dew pattern appears.



- **1** Filter for gas sample
- 2 Pump for gas sampling
- 3 Measuring chamber
- 4 Contrast mirrorl
- 5 Mirror backing plate and measuring point
- 6 Peltier cooling element
- 7 Gas flow meter
- 8 Temperature indicator
- 9 Heat exchanger
- 10 Cooling fan
- **11** Power supply
- 12 Switch for cooling system