

IDP 400 mobile - with integrated dew point and pressure measurement

For measurement of all humidity parameters under pressure up to 16 bar

The IDP 400 mobile with integrated, rechargeable battery has been developed especially for field use. In addition to a highly precise dew point sensor, a precise pressure sensor is also installed in the device up to 16 bar. So in addition to the pressure dew point in °Ctd, the temperature in °C and the line pressure in bar, further moisture parameters (% RH, mg/m³, g/m³) as well as pressure-dependent measured values (g/kg, ppm v/v, atm. dew point °C) can also be calculated.



SPECIAL FEATURES:

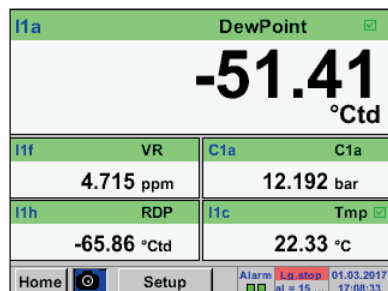
- Precise dew point measurement down to -80 °Ctd, ppm V/V, atmospheric dew point
- Robust service case for field use
- Integrated pressure measurement up to 16 bar
- Integrated measuring chamber with integrated dry container protects the dew point sensor during transport and guarantees quick adaption time
- Humidity sensor with long-term stability: precise, condensation-resistant, quick adaption time
- Optional: 2 further sensor inputs for external sensors
- Optional: Integrated data logger



6 mm plug connection for measuring gas/compressed air feed

Option: Two further sensor inputs for: (flow, pressure, dew point, 4...20 mA, Modbus-RTU...)

Easy operation via touchscreen



Actual measured values

All measured values can be seen at a glance. Threshold value exceedances are indicated in red color. Thanks to the integrated pressure sensor, IDP 400 mobile is able to calculate the atmospheric dew point.

Graphic view

In the graphic view all measured values are indicated as curves. It is possible to browse back on the time axis by a slide of the finger (without data logger maximum 24 h, with data logger back to the start of the measurement).

Data logger

Measured values are stored in IDP 400 by means of the option „integrated data logger“.

The time interval can be freely set. Furthermore there is the possibility to fix the starting time and the end time of the data recording.

Read-out of the measured data via USB interface or via the optional Ethernet interface.

| DESCRIPTION | ORDER NO. |
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| IDP 400 mobile - Portable dew point meter with integrated pressure measurement, incl. transportation bag for PTFE hose and power supply | 0500 4505 |
| Option: Integrated data logger for 100 million measured values | Z500 4002 |
| Option: Integrated Ethernet and RS 485 interface | Z500 4004 |
| Option: Integrated webserver | Z500 4005 |
| Option: "Mathematics calculation function" for 4 freely selectable channels, (virtual channels): addition, subtraction, division, multiplication | Z500 4007 |
| Option: 2 additional sensor inputs for external sensors (1 x digital sensor Modbus, 1 x analogue sensor) | Z500 4001 |
| Basic – data evaluation graphically and in tabular form - reading of the measured data via USB or Ethernet, license for 2 workstations | 0554 8040 |
| Connection cable for IVA / IFA sensors to mobile devices, ODU/M12, 5 m | 0553 1503 |
| Connection cable for pressure, temperature or third-party sensors on mobile devices, ODU/open ends, 5 m | 0553 0501 |
| Connection cable for pressure, temperature or third-party sensors on mobile devices, ODU/open ends, 10 m | 0553 0502 |
| Extension cable for mobile instruments ODU/ODU, 10m | 0553 0504 |

TECHNICAL DATA IDP 400 MOBIL

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|---|--|
| Display: | 3.5" touch screen |
| Measuring range: | -80...+50 °Ctd -20...+70 °C 0...100% RH 0...16 bar ± 0.5 % |
| Accuracy: | ± 1 °C at 50...-20 °Ctd ± 2 °C at -20...-50 °Ctd ± 3 °C at -50...-80 °Ctd |
| Moisture parameters: | g/m ³ , mg/m ³ , ppm V/V, g/kg, °Cdatm, % RH |
| Interface: | USB interface |
| Data logger option: | 16 GB SD memory card (100 million values) |
| Power supply for external sensors: | Output voltage: 24 VDC ± 10% Output current: 120 mA in continuous operation |
| Power supply: | Internal rechargeable Li-Ion batteries, approx. 12 h continuous operation, 4 h charging time |
| Process connection: | 6 mm plug connections |
| Ambient temperature: | 0...+50 °C |
| EMC: | DIN EN 61326-1 |