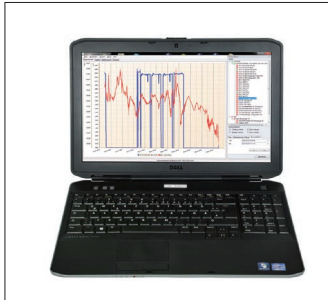# DP 400 mobile -
with integrated dew point and pressure measurement

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

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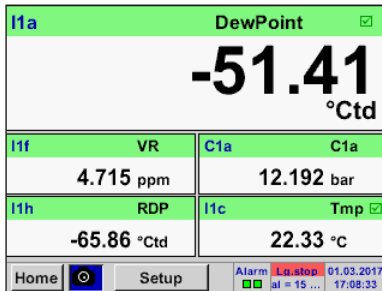
SPECIAL FEATURES:

- Precise dew point measurement down to -80°Ctd

- Robust 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 grants a quick adaptation time

- Long-time stable humidity sensor: precise, insensitive against dewing, quick adaptation time

- Optionally available: 2 further sensor inputs for external sensors

- Optionally available: Integrated data logger

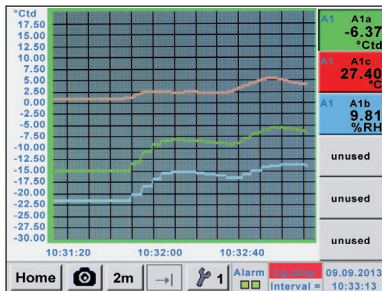6 mm plug connection for measuring gas/compressed air feed

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

Easy operation via touchscreen

Actual measured values

All measured values are visible at a glance.
Exceed of limit value is indicated in red. Due to the integrated pressure sensor DP 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 DP 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.
DP 400 mobile - Portable dew point meter with integrated pressure measurement, incl. transportation bag for teflon 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 analog sensor)	Z500 4001
CS 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 VA/FA series on mobile instruments, ODU/M12, 5m	0553 1503
Connection cable for pressure, temperature or external sensors on mobile instruments, 5 m	0553 0501
Connection cable for pressure, temperature or external sensors on mobile instruments, 10 m	0553 0502
Extension cable for mobile instruments ODU/ODU, 10m	0553 0504

TECHNICAL DATA DP 400 MOBIL	
Display:	3.5" Touch screen
Measuring range:	-80...+50°Ctd -20...+70°C 0...100 % rF 0...16 bar ± 0,5 %
Accuracy:	± 1°C bei 50...-20°Ctd ± 2°C bei -20...-50°Ctd ± 3°C bei -50...-80°Ctd
Humidity parameters:	g/m³, mg/m³, ppm V/V, g/kg, °Ctdatm, % rF
Interface:	USB inteface
Option Data logger:	8 GB SD memory card (100 millions values)
Voltage supply for external sensors:	Output voltage: 24 VDC ± 10% Output current: 120 mA in long-term use
Current supply:	Internally loadable Li-Ion batteries approx. 12 h continuous operation, 4 h charging time
Connection:	6 mm plug connections
Ambient temperature:	0...+50°C
EMV:	DIN EN 61326-1

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