DP 500/510 - Mobile dew point meters with data logger

Applications:

CS INSTRUMENTS

- Compressed air: Examination of refrigeration, membrane, adsorption dryers
- Technical gases: Residual moisture measurement in gases such as N2, O2 etc.
- Plastics industry: Examination of granulate dryers

Special features:

- Precise dew point measurement down to -80 °Ctd
- · Quick response time
- · 3.5" graphic display / easy operation via touch screen
- · Integrated data logger for storage of the measured values
- · USB interface for reading out via USB stick
- Calculates all necessary moisture parameters like g/m³, mg/m³, ppm V/V, g/kg, °Ctdatm
- 2nd freely assignable sensor input for third-party sensors (only DP 510)
- · International: up to 8 languages selectable



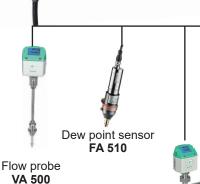
Quick installation by means of measuring chamber and quick coupling



Ideal for service technicians - everything in one case



Dry container - for sensor protection and quick adaption time





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Transfer of data to the PC

2nd freely assignable sensor input for third-party sensors

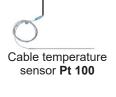
via USB stick

(only DP 510)

Flow meter

VA 520





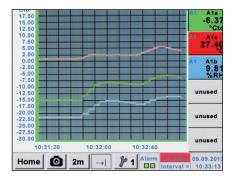


Current/effective power

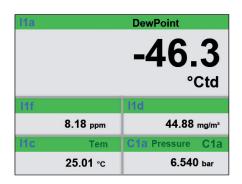
Screw-in temperature probe
Pt 100
Third-party sensors
0-1/10 V
(0) 4...20 mA Pulse
Modbus/RS 485

The whole range of suitable sensors can be found on pages 38 to 41

Everything at a glance



measurement curves are displayed graphically, so the operator sees at a glance the behavior of the dryer since the start of the measurement.



All physical parameters of the humidity measurement are calculated automatically. The DP 510 also displays the measured values of the external sensor.

***	Logger settings ***
	Time interval (sec)
1 2 5	10 15 30 60 120 15
force new re	ecord file
Comment:	Dryer Trockener 13
Logger stopped	timed Start timed Stop
START STOP	12:26:00 - 06.0 13:28:00 - 06.0
Remai	Ining logger capacity = 9999 days
	ng: 0 channels selected nterval (min 1 sec

Up to 100 million measured values can be stored. Each measurement can be stored with a comment, e.g. measuring site name. The time interval can be freely set.

DESCRIPTION	ORDER NO.
Set DP 500 in a case - consisting of:	0600 0500
- Portable dew point meter DP 500 for compressed air and gases	0560 0500
- Mobile measuring chamber up to 16 bar	0699 4490
- Diffusion-tight PTFE hose with quick coupling, length 1 m	0554 0003
- Power supply for DP 500/DP 510	0554 0009
- Control and calibration set 11.3% RH	0554 0002
- Quick-lock coupling	0530 1101
- Dry container for CS dew point sensors	0699 2500
- Transportation case (small) for DP 500	0554 6500

Set DP 510 in a case - consisting of:

- Mobile dew point meter DP 510 with one additional input for external	0560 0510
sensors	
- Mobile measuring chamber up to 16 bar	0699 4490

- Diffusion-tight PTFE hose with quick coupling, length 1 m	
- Power supply for DP 500/DP 510	

- Control and	calibration	set	11.3%	RH

- Quick-lock coupling

- Dry container for CS dew point sensors

- Transportation case (large) for DP 510 as well as other sensors

Furter options, not	included	in	the	set:
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Option: Integrated pressure sensor 030 bar (g)	Z699 052
Option: "Mathematics calculation function" for 4 freely selectable channels, (virtual channels): addition, subtraction, division, multiplication	Z500 5107
Option: "Totaliser function for analogue signals"	Z500 5106
CS Basic – data evaluation graphically and in table form - reading of	0554 8040

the measured data via USB or Ethernet, licence for 2 workstations Precision calibration at -40 °Ctd or 3 °Ctd with ISO certificate

Additional calibration point freely selectable in the range between -80...+20 °Ctd

High pressure measuring chamber up to 350 bar Measuring chamber for atmospheric dew point

Measuring chamber for granulate dryers with minimum overpressure Portable dew point meter DP 510 for compressed air and gases

(high pressure version up to 350 bar) Portable dew point meter DP 500 for compressed air and gases (high pressure version up to 350 bar)

0600 0510

0699 4490

0554 0003 0554 0009

0554 0002 0530 1101

0699 2500 0554 6510

)7)6

> Ю 0699 3396

> > 0700 7710 0699 3590

0699 3690 0699 3490 0560 0512

0560 0501

Screw-in thread:

EMC:

ters:

Pressure range:

Interface:

Data logger:

Power supply:

Power supply:

Ambient temperature:

Photo key Photo key saves current screen as an

image file. No additional software necessary.

TECHNICAL DATA DP 500/510

Display: 3.5" touch screen Measuring range: -80...+50 °Ctd -20...+70 °C 0...100% RH

Accuracy: ± 0.5 °Ctd at -10...+50 °Ctd

Typ. ± 2 °Ctd (further range)

Moisture parameg/m³, mg/m³, ppm V/V, g/kg, °Ctdatm, % RH

> -1...50 bar standard -1...350 bar special version

USB interface

16 GB SD memory card (100 million values)

> Output voltage: 24 VDC ± 10%

Output current: 120 mA in continuous operation

Internal rechargeable Li-Ion batteries, approx. 12 h continuous operation, 4 h

charging time Stainless steel 1.4404:

0...+50 °C

DIN EN 61326-1

NPT 1/2" or G 1/2"