DP 500/ DP 510

Portable dew point meters with data logger

The new instruments **DP 500/ DP 510** are the ideal portable service instruments for dew point measurement for all types of driers down to -80°Ctd dew point.

The 3.5" graphic display with touch screen makes the operation very easy.

The graphic indication of coloured measuring curves is unique. Ideal for measurement of the current dew point and for graphic indi-

cation of the dew point curve/ the switching behavior of the dryer over a longer period of time

Up to 100 million measured values can be stored with date and measuring site name. The measured data can be transferred to the computer via USB stick. The data can be evaluated comfortably by means of the software CS Soft Basic. Measured data and ser-

vice reports can be issued easily and quickly.

DP 510 additionally disposes of one further freely assignable sensor input.

Apart from the internal dew point measurement one further optional sensor can be connected like for example:

- · Pressure sensors
- Flow sensors, VA 500/520
- Temperature sensors Pt 100, 4...20mA
- Further dew point sensors
- · Effective power meters
- Optional third-party sensors with the following signals: 0...1/10 V, 0/4...20 mA, Pt 100, Pt 1000, pulse, Modbus

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

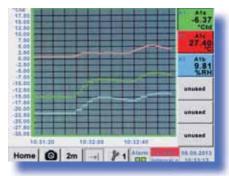


Application ranges:

- Compressed air: Examination of refrigeration, membrane, desiccant driers
- Technical gases: Residual moisture measurement in gases like N2, O2 and so on
- Plastics industry: Examination of granulate driers
- Medical compressed air/breathing air

2nd freely assignable sensor input for third-party sensors (only DP 510)

Everything at a glance



Measurement curves are indicated graphically and thus the user can see at a glance the behaviour of the dryer since the start of the measurement.



All physical parameters of moisture measurement are calculated automatically. In case of DP 510 the measured values of the third-party sensor are indicated additionally.



It is possible to store up to 100 million measured values.

Each measurement can be stored with a comment, e.g. measuring site name.

The time interval can be freely determined.





Ideal for service technicians - everything in one case



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 connector, length 1 m	0554 0003
Power supply for DP 500/510	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
Further options, not included in the set	
CS Soft Basic - data evaluation in graphic and table form- reading out of the measured data of DP 500/510 via USB	0554 7040
Precision calibration at -40°Ctd or 3°Ctd with ISO certificate	0699 3396
Additional calibration point freely selectable in the range between -80+20°Ctd	0700 7710
High pressure measuring chamber up to 350 bar	0699 3590
Measuring chamber for atmospheric dew point	0699 3690
Measuring chamber for granulate driers with minimum overpressure	0699 3490
Measuring chamber for respiratory air bottles up to 350 bar	0699 3790
Portable dew point meter DP 500 for compressed air and gases (high pressure version up to 350 bar)	0560 0501

Technical data:		
Display:	3.5" touch screen	
Measuring range:	-80+50°Ctd -20+70°C 0100 % rH	
Accuracy:	± 0,5°Ctd at -10+50°Ctd typ. ± 2°Ctd remain. range	
Moisture- parameters:	g/m³, mg/m³, ppm V/V, g/kg, °Ctdatm, %RH	
Pressure range:	-150 bar standard -1350 bar special version	
Interface:	USB interface	
Data logger:	2 GB SD memory card (100 million values)	
Power supply for sensors:	Output voltage: 24 VDC ± 10 % Output current: 120 mA continuous operation	
Power supply:	Internal rechargea- ble Li-Ion batteries, approx 12 h conti- nuous operation, 4 h charging time	
Screw-in thread:	G 1/2" stainless steel	
Surrounding temperature:	0+50°C	
EMV:	DIN EN 61326	



DP 500 / DP 510

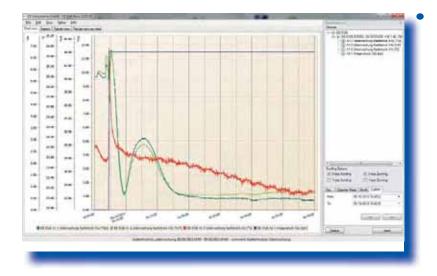
Flexible data recording and transfer via USB cable or USB



temporary and it cannot be used in the computer. Therefore the printout was glued onto a paper very often.

Data evaluation in 5 languages by means of CS Soft Basic

Everything at a glance: Table, graph, statisticsat the touch of a button the user gets all necessary information



Graphic evaluation

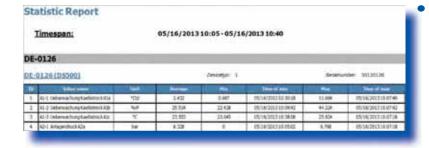
All measurement curves are indicated in terms of colour. All necessary functions such as zoom, selection/deselection of single measurement curves, freely selectable time periods, scaling of the axis, selection of colours and so on are integrated:

This view can be stored as a pdf file and sent by e-mail. Different data can be consolidated to a common file.



Table view

All measuring points are listed with exact time interval. The desired measuring channels with measuring site name can be selected via the diagram explorer.



Statistics

All necessary statistics data are visible at a glance. So the user can quickly see which minimum or maximum measured values occurred at which time and for how long.