### 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 indication 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 service 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



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

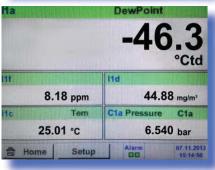
### **Application ranges:**

- 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

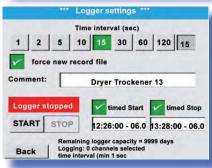
### Everything at a glance



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.

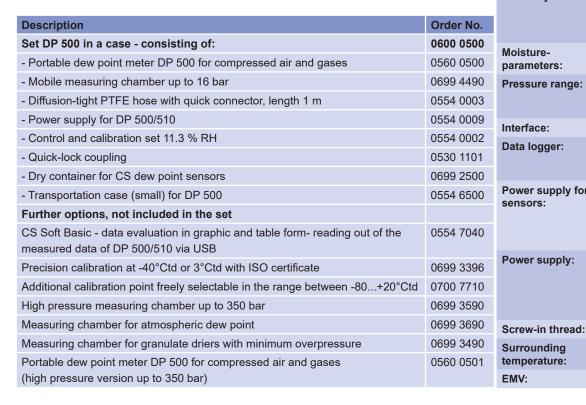


All physical parameters of moisture measurement are calculated automatically. In case of DP 510 the measured values of the third-party sensor are indicated additionally.



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



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 g/kg, °Ctdatm, %RF
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 Output voltage: 24 VDC ± 10 %

Output current: 120 mA continuous operation

Power supply: Internal rechargea-

ble Li-Ion batteries, approx 12 h continuous operation, 4 h charging time

G 1/2" stainless steel

0...+50°C Surrounding

temperature:

EMV: **DIN EN 61326** 



### DP 500 / DP 510

# Flexible data recording and transfer via USB cable or USB stick



The stored measured data can be easily transferred to the computer via a USB stick or via a USB cable.

The time periods are freely selectable or you just read out the whole memory.

The data can be evaluated by means of the software CS Soft Basic in table and in graphic form.



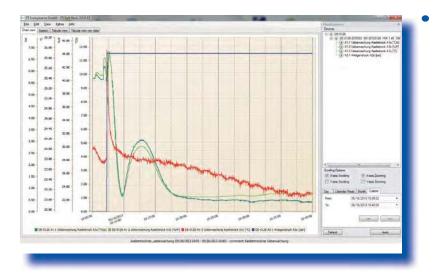
# World debut screen-shot key

Ideal for documentation of the measured values/measurement curves on site. Coloured measurement curves can be sent by e-mail or integrated into a service report. By means of the screen-shot key the "current screen" can be stored as an image file and printed out at the computer or edited without any additional software.

In the past mini thermo transfer printers were used frequently. The lifetime of the printout is 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

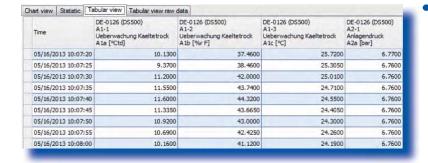
Everything at a glance: Table, graph, statisticsat the touch of a button the user gets all necessary information



### 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.