



DP 510

Portable dew point meter with data logger and third-party sensor

Performing measuring tasks with one instrument

DP 510 disposes of all functions of DP 500 and has an **additional freely assignable sensor input**.

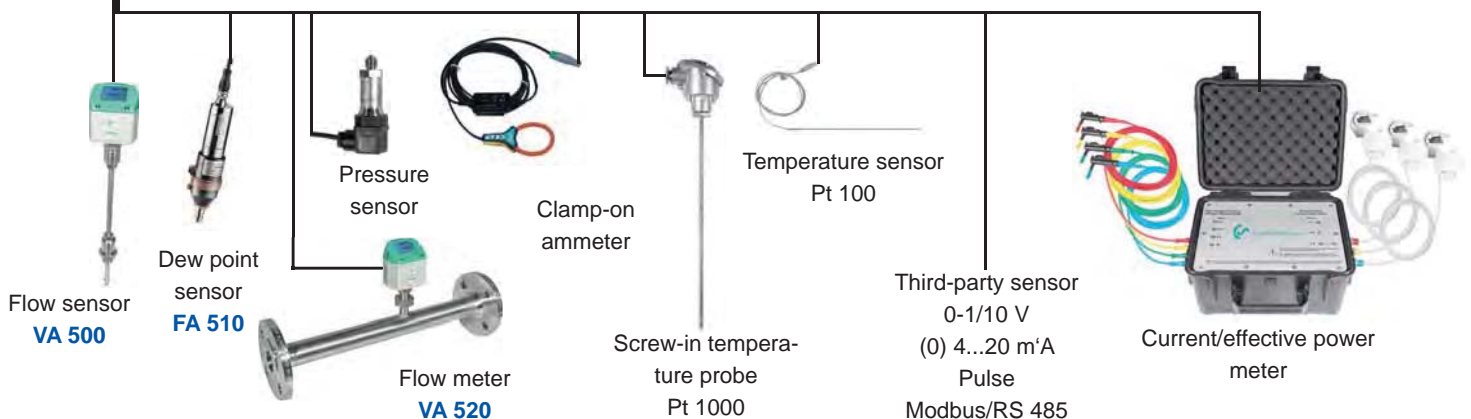
Additionally to the internal dew point measurement one further optional sensor can be connected.

So the user can meet nearly all industrial measuring tasks like for example:

- Separate pressure measurement
- Dew point distance via external temperature sensor
- Compressed air consumption measurement
- Active power in kWh/kW



Description	Order No.
Set DP 510 in a case - consisting of:	0600 0510
Portable dew point meter DP 510 with one additional sensor input	0560 0510
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 (big) for DP 510 as well as further sensors	0554 6510
Further options, not included in the set	
Option for DP 510: „Mathematics calculation function“ for 4 freely selectable channels, (virtual channels): addition, subtraction, division, multiplication	Z500 5107
Option for DP 510: „Totalizer function for analogue signals“	Z500 5106
CS Soft Basic - data evaluation in graphic and table form - reading out of the measured data via USB stick	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 510 for compressed air and gases (high pressure version up to 350 bar)	0560 0512





Suitable sensors for DP 510

Flow sensors VA 500:	Order No.	
Flow sensor VA 500 Max. Version (185 m/s) sensor length 220 mm, incl. 5 m cable to mobile instruments	0695 1124	
Flow sensor VA 500 High-Speed Version (224 m/s), sensor length 220 mm, 5 m cable to mobile instruments	0695 1125	
Option for VA 500:		
Sensor length 120 mm	ZSL 0120	
Sensor length 160 mm	ZSL 0160	
Sensor length 300 mm	ZSL 0300	
Sensor length 400 mm	ZSL 0400	
Flow measuring range VA 520 for compressed air:(ISO 1217: 1000 mbar, 20°C)		
Flow meter VA 520, 0,8... 90 l/min, (R 1/4" DN 8)	0695 0520	
Flow meter VA 520, 0,2... 90 m³/h, (R 1/2" DN 15)	0695 0521	
Flow meter VA 520, 0,3... 170 m³/h, (R 3/4" DN 20)	0695 0522	
Flow meter VA 520, 0,5... 290 m³/h, (R 1" DN 25)	0695 0523	
Flow meter VA 520, 0,7... 480 m³/h, (R 1 1/4" DN 32)	0695 0526	
Flow meter VA 520, 1,0... 550 m³/h, (R 1 1/2" DN 40)	0695 0524	
Flow meter VA 520, 2,0... 900 m³/h, (R 2" DN 50)	0695 0525	
Dew point sensors:		
FA 510 dew point sensor for mobile instruments, -80...+20°Ctd, incl. mobile measuring chamber, 5 m cable and perforated cap	0699 1510	
Connection cable for VA/FA sensors:		
Connection cable for VA/FA series on mobile instruments, ODU / M12, 5m	0553 1503	
Pressure sensors: (further pressure sensors, please see on page 24)		
Standard pressure sensor CS 16 from 0...16 bar, ± 1 % accuracy of full scale	0694 1886	
Standard pressure sensor CS 40 from 0...40 bar, ± 1 % accuracy of full scale	0694 0356	
Temperature sensors:		
Bendable temperature probe Pt100 Class B, length 300 mm ø 3 mm, -70...+500°C, 2 m probe connection cable glass fibre/stainless steel with ODU plug 8 pole for mobile instruments	0604 0106	
Screw-in temperature probe Pt 100 Class A, length: 300 mm with measuring transducer 4 to 20 mA = -50 to +500 °C (2-wire technology) (Please order additional the connection cable 0553 0501)	0693 0002	
Temperature probe cable Pt 100, Class A, length: 300 mm, Ø 6 mm, -50...+180°C, with 5 m connection cable with open ends (Please order additional the ODU plug Z604 0104)	0604 0102	
Temperature probe cable Pt 100, Class A, length: 150 mm, Ø 6 mm, -50...+180°C, with 5 m connection cable with open ends (Please order additional the ODU plug Z604 0104)	0604 0100	
Mini temperature probe cable Pt100 Class A, length 25 mm, ø 4 mm 50°C to +180°C, 5 m probe connection cable with open ends (Please order additional the ODU plug Z604 0104)	0604 0105	
Clamp screwing 6 mm, G 1/2", VA clamping, pressure-tight up to 10 bar	0554 6004	
Temperature calibration certificate 2 measuring points	0520 0180	
Connection cables for pressure sensors / temperature sensors:		
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	
Mounted Odu plug for connection on mobile instruments	Z604 0104	
Clamp-on ammeters:		
Clamp-on ammeter 0...400 A TRMS incl. 5 m connection cable	0554 0511	
Clamp-on ammeter 0...1000 A TRMS incl. 5 m connection cable	0554 0519	
Calibration certificate for clamp-on ammeter	0554 3333	
Current/effective power meter up to 100 A	0554 5341	
Current/effective power meter up to 600 A	0554 5342	
- Mobile current/effective power meter with 3 external current transducers for big machines and plants, - External current transformers for clamping on cables (100 or 600 A), - External magnetic measuring tips for measuring the voltage, -Measures kW, kWh, cos phi, kVar, KVA, - Data transfer for DP 510 via Modbus, - incl. connection cable for mobile current/effective power meter to DP 510, 5 m		
Optional third-party sensors connectable:		
e.g. heat meters, current meters, gas meters, water meters and so on. To the 2nd freely assignable sensor input all sensors of CS Instruments can be connected as well as optional third-party sensors and counters with the following signal outputs: 4-20 mA, 0-20 mA 0-1 V / 0-10 V / 0-30 V Pt100 (2- or 3-wire), Pt1000 (2- or 3-wire), KTY pulse outputs (e.g. of gas counters) Frequency output Modbus protocol		