

CS INSTRUMENTS

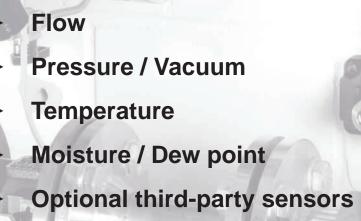
97.50 10:40 10:10 10:20 10:30 10 + 2 / 2 Alarm 200

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 PI 500

NEW

Hand-held instrument



500

for industry



PI 500 Hand-held instrument for industry

The new PI 500 is an all-purpose hand-held measuring instrument for many applications in industry like e.g.:

- ► Flow measurement
- Pressure/vacuum measurement
- ► Temperature measurement
- Moisture/dew point measurement

The graphic indication of coloured measurement curves is inimitably.

Up to 100 million measured values can be stored with date and name of measuring site. The measured values can be transferred to the computer by means of a USB stick.

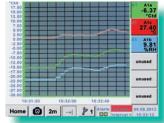
The data can be comfortably evaluated with the CS Soft Basic software. Measured data and service reports can be issued easily and quickly. The following sensors can be connected to the freely configurable sensor input of PI 500:

- Pressure sensor (high and low pressure)
- ▶ Flow sensors, VA 400/420
- Temperature sensors Pt 100, Pt 1000 / 4...20 mA
- ▶ Dew point sensors FA 410/FA 415
- ► 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:

- Universal sensor input for lots of common sensor signals
- Internal rechargeable Li-Ion batteries (approx.12h continuous operation)
- 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
- International: Up to 8 languages selectable





Ctd

44.88 main

6.540 bar

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

All physical parameters of moisture measurement are calculated automatically.



8.18 ppm

25.01 °C

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.



PI 500

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.

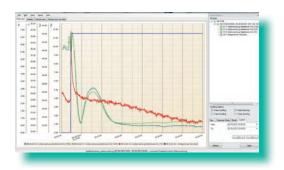
World debut screenshot key

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 screenshot key the "current screen" can be stored as an

image file and printed out at the computer or edited without any additional software.

Data evaluation in 5 languages by means of CS Soft Basic

Everything at a glance: Table, graph, statistics - at 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 statistic 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.



PI 500 Hand-held instrument with large range of sensors





Suitable sensors for PI 500

Flow sensors VA 400:	Order No.	
Flow sensor VA 400-Max. Version (185 m/s) sensor length 220 mm, incl. 5 m cable to mobile instruments	0695 1122	
Flow sensor VA 400 High-Speed Version (224 m/s), sensor length 220 mm, 5 m cable to mobile instruments	0695 1123	
Option for VA 400:		
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 420 for compressed air:(ISO 1217: 1000 mbar, 20°C)		
Flow meter VA 420, 0,8 90 l/min, (R1/4" DN 8)	0695 0420	8
Flow meter VA 420, 0,2 90 m ³ /h, (R1/2" DN 15)	0695 0421	
Flow meter VA 420, 0,3 170 m ³ /h, (R3/4" DN 20)	0695 0422	
Flow meter VA 420, 0,5 290 m ³ /h, (R1" DN 25)	0695 0423	-
Flow meter VA 420, 0,7 480 m ³ /h, (R11/4" DN 32)	0695 0426	
Flow meter VA 420, 1,0 550 m ³ /h, (R11/2" DN 40)	0695 0424	
Flow meter VA 420, 2,0 900 m ³ /h, (R2" DN 50)	0695 0425	
Dew point sensors:		
FA 410 dew point sensor for mobile instruments, -80+20°Ctd, incl. mobile measuring chamber, 5 m cable and perforated cap	0699 1411	4
FA 415 dew point sensor for mobile instruments, -20+50°Ctd, incl. mobile measuring chamber, 5 m cable and perforated cap	0699 1415	
Extension cable for mobile instruments ODU/ODU, 10m	0553 0504	E C
Calibration certificate for flow / dew point sensors:		
5 point precision calibration with ISO certificate	3200 0001	1
Precision calibration at -40 °Ctd incl. ISO certificate	0699 3396	, F
Pressure sensors:		
Standard pressure sensor CS 16 from 016 bar, ± 1 % accuracy of full scale	0694 1886	
Standard pressure sensor CS 40 from 040 bar, ± 1 % accuracy of full scale	0694 0356	
Standard pressure sensor CS 1.6 from 01.6 bar abs., ± 1 % accuracy of full scale	0694 3551	a
Standard pressure sensor CS 100 from 0100 bar, \pm 1 % accuracy of full scale	0694 3557	
Standard pressure sensor CS 250 from 0250 bar, \pm 1 % accuracy of full scale	0694 3558	
Standard pressure sensor CS 400 from 0400 bar, \pm 1 % accuracy of full scale.	0694 3559	
Precision pressure sensor CS -1+15 bar, ±0.5 % accuracy of full scale	0694 3553	· · · · · · · · · · · · · · · · · · ·
Precision differential pressure sensor CS 400, 0400 mbar differential pressure, 0.075% accuracy of full scale, static pressure max. 40 bar	0694 3560	
Calibration of pressure sensor 5 points between 0 and 10/16 bar	3200 0004	
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	6
Screw-in temperature probe Pt100 Class A, length: 300 mm with measuring transducer 4 to 20 mA = -50 to +500 $^{\circ}$ C (2-wire technology)	0693 0002	
Screw-in temperature probe Pt100 Class A, length: 300 mm with measuring	0693 0002 0604 0102	AP
Screw-in temperature probe Pt100 Class A, length: 300 mm with measuring transducer 4 to 20 mA = -50 to +500 °C (2-wire technology) Temperature probe Pt100 Class A, length: 300 mm with 5 m connection cable with		
Screw-in temperature probe Pt100 Class A, length: 300 mm with measuring transducer 4 to 20 mA = -50 to +500 °C (2-wire technology) Temperature probe Pt100 Class A, length: 300 mm with 5 m connection cable with open ends Mini temperature probe cable Pt100 Class A, length 25 mm, ø 4 mm 50°C to	0604 0102	



Suitable sensors for PI 500

Connection cables for pressure sensors / temperature sensors:	Order No.	
Connection cable for pressure, temperature or external sensors on mobile instruments, ODU / open ends, 5 m	0553 0501	
Connection cable for pressure, temperature or external sensors on mobile instruments, ODU / open ends, 10 m	0553 0502	
Extension cable for mobile instruments, ODU / ODU, 10 m	0553 0504	
Clamp-on ammeters:		
Clamp-on ammeter 0400 A TRMS incl. 5 m connection cable	0554 0511	
Clamp-on ammeter 01000 A TRMS incl. 5 m connection cable	0554 0508	
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 to PI 500 via Modbus Incl. connection cable for mobile current/effective power meter to mobile instruments, 5 m 		
Optional third-party sensors connectable:		

Application: **Portable flow measurement** in production in front of machines and plants





Set for dryer monitoring	
	°Ctd
PI500 portable measuring instrument with integrated data logger	0560 0511
PA 410 dew point sensor for mobile instruments, -80+20°Ctd incl. mobile measuring chamber, 5 m cable	0699 1411
Standard Pressure sensor CS 16 from 016 bar, ± 1 % accuracy of full scale	0694 1886
Connection cable for pressure, temperature or external sensors to portable instruments, ODU / open ends, 5 m	0553 0501
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 portable instruments	0604 0106
6 CS Soft Basic - data evaluation in graphic and table form - reading out of the measured data via USB	0554 7040
Transportation case	0554 6510

Set for portable flow measurement

	m³/h
PI500 portable measuring instrument with integrated data logger	0560 0511
2 Flow meter VA 420, 0,3 170 m ³ /h, (R3/4" DN 20)	0695 0422
3 Connection cable for VA/FA 400, 5 m	0553 0104
OCS Soft Basic - data evaluation in graphic and table form - reading out of the measured data via USB	0554 7040
Transportation case	0554 6510



Standard set compressed air	
	m³/h
	°Ctd
	bar
	°C
PI500 portable measuring instrument with integrated data logger	0560 0511
2 Flow sensor VA 400-Max. Version (185 m/s) sensor length 220 mm, incl. 5 m cable to portable instruments	0695 1122
3 FA 410 dew point sensor for mobile instruments, -80+20°Ctd incl. mobile measuring chamber, 5 m cable	0699 1411
Standard Pressure sensor CS 16 from 016 bar, ± 1 % accuracy of full scale	0694 1886
S Connection cable for pressure, temperature or external sensors to portable instruments, ODU / open ends, 5 m	0553 0501
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CS Soft Basic - data evaluation in graphic and table form - reading out of the measured data via USB	0554 7040
8 Transportation case	0554 6510

Professional set compressed air

