PI 500 - Hand-held measuring device for the industry

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

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

The graphic indication of colored 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 conveniently evaluated with the CS Basic software.

Measured data and service reports can be issued easily and quickly. The following probes can optionally be connected to the freely configurable sensor input of PI 500:

- · Pressure sensors (high and low pressure)
- Flow probes, VA 500/VA 520
- Temperature sensors Pt 100, Pt 1000/4...20 mA
- Dew point sensors FA 510
- · 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



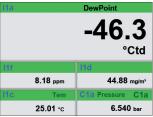
Special features:

- · Universal sensor input for many common sensor signals
- Internal rechargeable Li-Ion batteries (approx. 12 h 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: International: Up to 8 languages selectable



Measurement curves are displayed graphically, so the operator sees at a glance the behaviour of the dryer from the start of the measurement.







All physical parameters of the humidity measurement are calculated automatically. The PI 500 also displays the measured values of the external sensor.

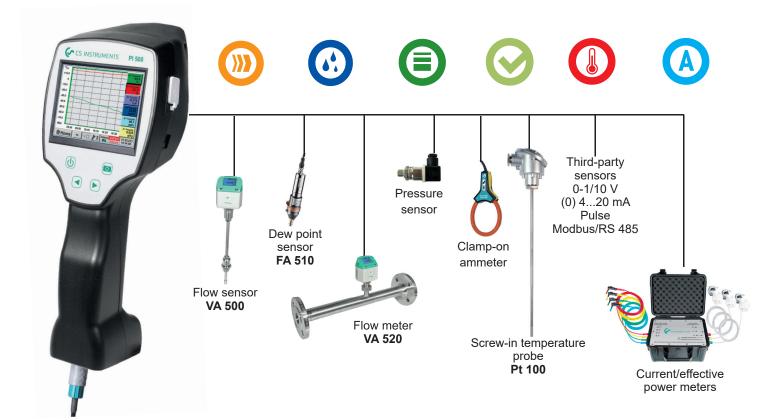
Up to 100 million measured values can be stored. Each measurement can be stored with a comment, e.g. measuring site name. The time interval can be freely set.



ORDER NO.

0560 0511 Z500 5107

PI 500 - Hand-held measuring instrument with large sensor selection



PI 500 portable measuring instrument with integrated data logger

use in dry rooms

82 x 96 x 245 mm

0...50 °C ambient temperature

16 GB memory card standard

For connection of pressure and temperature sensors, clamp-on

ammeters, third-party sensors with 4 ... 20 mA, 0-10 V, Pt 100,

PC/ABS

-20 to +70°C

DIN EN 61326

Pt 1000, Modbus

450 a

		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
INPUT SIGNALS		CS Basic – data evaluation graphically and in tabular form - reading of the measured data via USB or Ethernet, license for 2 workstations		0554 8040
Current signals internal or external power supply	(020 mA/420 mA)	Transport case 0554 6510 Further sensors can be found on pages 38 to 41		
Measuring range Resolution Accuracy Input resistance	020 mA 0.0001 mA ± 0.03 mA ± 0.05 %	TECHNICAL DATA PI 500		
Voltage signal:	(01 V) 01 V 0.05 mV ± 0.2 mV ± 0.05 %	Display:	3.5" touch panel TFT transmissive, graphics, curves, statistics	
Measuring range Resolution Accuracy		Interfaces:	USB interface	
		Power supply for sensors::	Output voltage: 24 VDC ± 10% Output current: 120 mA in continuous operation	
Input resistance Voltage signal	100 kΩ (010 V / 30 V)	Power supply:	Internal rechargeable Li-lon batteries, charging time approx. 4 h, PI 500 continuous operation> 4h depending on power consumption	
Measuring range Resolution	010 V 0.5 mV	Power adapter:	for ext. sensor 100 - 240 VAC / 50 - 60 Hz, 12 VDC - 1A, safety class 2 only for	
\ccuracy		rower auapter.		

Dimensions:

Weight:

ture:

EMC:

Sensor input:

Memory Size:

Housing material:

Operating tempera-

Storage temperature:

± 2 mV ± 0.05 %

-200...850 °C

-200...850 °C

max. 30 VDC

± 0.2 °C (-100...400 °C)

± 0.3 °C (further range)

± 0.2° (-100...400 °C)

frequency 0...1 kHz

Min pulse length 500 µs

 $1~\text{M}\Omega$

0.1 °C

Accuracy

RTD Pt 100

Resolution

RTD Pt 1000

Resolution

Accuracy

Pulse

Measuring range

Measuring range

Accuracy

Input resistance

Measuring range

DESCRIPTION