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.

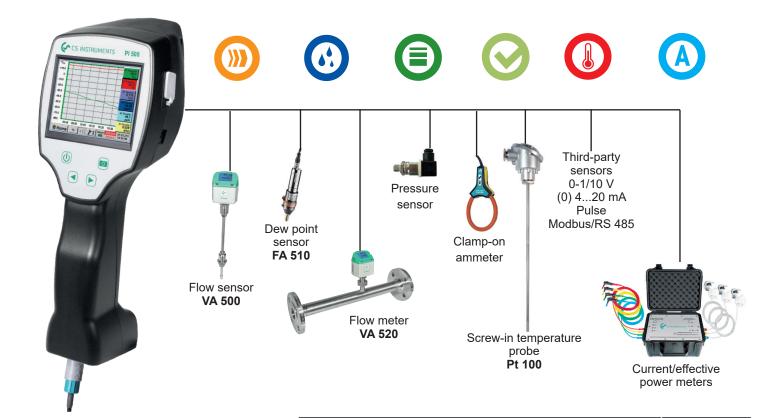
0560 0511 Z500 5107

Z500 5106

0554 8040

0554 6510

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



PI 500 portable measuring instrument with integrated data logger

		•	calculation function" for 4 freely selectable channels, ition, subtraction, division, multiplication
		Option: "Totaliser function for analogue signals"	
INPUT SIGNALS		CS Basic – data evaluation graphically and in tabular form - reading of the measured data via USB or Ethernet, license for 2 workstations	
Current signals internal or external power supply	(020 mA/420 mA)	Transport case	be found on pages 32 to 35
Measuring range Resolution Accuracy	020 mA 0.0001 mA ± 0.03 mA ± 0.05 %	TECHNICAL DATA	PI 500
Input resistance	50 Ω (01 V)	Display:	3.5" touch panel TFT transmissive, graphics, curve
Voltage signal: Measuring range Resolution Accuracy	(01 V) 01 V 0.05 mV $\pm 0.2 \text{ mV} \pm 0.05 \%$ $100 \text{ k}\Omega$ $(010 \text{ V} / 30 \text{ V})$ 010 V 0.5 mV $\pm 2 \text{ mV} \pm 0.05 \%$ $1 \text{ M}\Omega$	Interfaces:	USB interface
		Power supply for sensors::	Output voltage: 24 VDC ± 10% Output current: 120 mA in continuous operation
Input resistance Voltage signal		Power supply:	Internal rechargeable Li-Ion batteries, charging tim PI 500 continuous operation> 4h depending on po
Measuring range Resolution Accuracy Input resistance		Power adapter:	for ext. sensor 100 - 240 VAC / 50 - 60 Hz, 12 VDC - 1A, safety c use in dry rooms
RTD Pt 100		Dimensions:	82 x 96 x 245 mm
Measuring range -200850 °C	-200850 °C	Housing material:	PC/ABS
5 1	0.4.00	Majaht.	450 %

0.1 °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

Resolution

RTD Pt 1000

Measuring range Resolution

Measuring range

Accuracy

Accuracy

Pulse

DESCRIPTION

TECHNICAL DATA PI 500				
Display:	3.5" touch panel TFT transmissive, graphics, curves, statistics			
Interfaces:	USB interface			
Power supply for sensors::	Output voltage: 24 VDC ± 10% Output current: 120 mA in continuous operation			
Power supply:	Internal rechargeable Li-Ion batteries, charging time approx. 4 h, PI 500 continuous operation> 4h depending on power consumption for ext. sensor			
Power adapter:	100 - 240 VAC / 50 - 60 Hz, 12 VDC - 1A, safety class 2 only for use in dry rooms			
Dimensions:	82 x 96 x 245 mm			
Housing material:	PC/ABS			
Weight:	450 g			
Operating temperature:	050 °C ambient temperature			
Storage temperature:	-20 to +70°C			
EMC:	DIN EN 61326			
Sensor input:	For connection of pressure and temperature sensors, clamp-on ammeters, third-party sensors with 4 20 mA, 0-10 V, Pt 100, Pt 1000, Modbus			
Memory Size:	16 GB memory card standard			