PI 500 - Hand-held measuring device for the industry

The new PI 500 is an all-purpose hand-held logger for many applications in the industrial manufacturing, 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 a 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

Using PI500 with a dew point sensor





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: Up to 8 languages selectable



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

All physical parameters of the humidity

measurement are calculated

automatically.



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

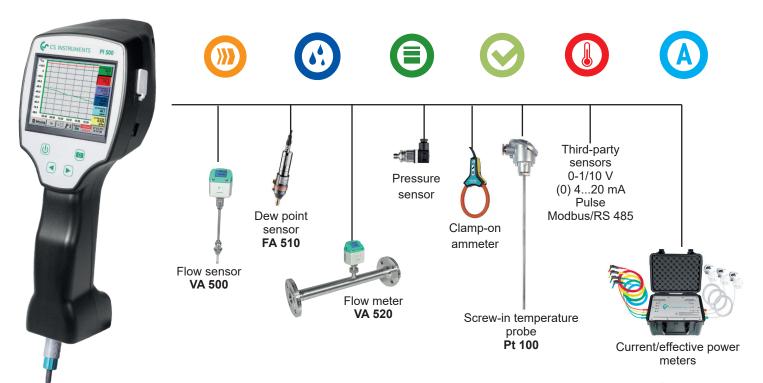
Z500 5107

Z500 5106

0554 8040

0554 6510

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



INPUT :	SIGNALS
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Current signals internal or external power supply

Measuring range
Resolution
Accuracy
Input resistance

Voltage signal:
Measuring range
Resolution

Accuracy Input resistance

Voltage signal

Measuring range Resolution

Accuracy Input resistance

RTD Pt 100

Measuring range Resolution

Accuracy

RTD Pt 1000

Measuring range Resolution Accuracy

Pulse

Measuring range

(0...20 mA/4...20 mA)

0...20 mA 0.0001 mA ± 0.03 mA ± 0.05 %

 $\pm 0.03 \text{ mA} \pm 0.05$ 50 Ω (0...1 V)

0...1 V 0..05 mV ± 0.2 mV ± 0.05 %

100 kΩ

(0...10 V / 30 V) 0...10 V 0.5 mV ± 2 mV ± 0.05 %

1 MΩ

-328...1562 °F 0.1 °F

± 0.2 °F (-148...-752 °F) ± 0.3 °F (further range)

-328...1562 °F 0.1 °F

± 0.2 °F (-148...-752 °F)

Min pulse length 500 μs frequency 0...1 kHz max. 30 VDC

DESCRIPTION

PI 500 portable measuring instrument with integrated data logger

Option: "Mathematics calculation function" for 4 freely selectable channels, (virtual channels): addition, subtraction, division, multiplication

Option: "Totalizer function for analog signals"

CS Basic – data evaluation graphically and in tabular form - reading of the

measured data via USB or Ethernet, license for 2 workstations

Transport case

Further sensors can be found on pages 38 to 41

TECHNICAL DATA PI 500

Display: 3.5" touch panel TFT transmissive, graphics, curves, statistics

Interfaces: USB interface

Power supply for sen- Output voltage: 24 VDC ± 10%

sors:: 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: 3.2 x 3.7 x 9.6 inch

Housing material: PC/ABS
Weight: 0.9 lbs

Operating temperature: 32...122 °F ambient temperature

Storage temperature: -4...158 °F

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