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

**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
- Z500 5107
- Option: "Totaliser function for analogue signals" Z500 5106
- CS Basic – data evaluation graphically and in tabular form - reading of the measured data via USB or Ethernet, license for 2 workstations 0554 8040
- Transport case 0554 6510

**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%
- **Power supply:** 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:** 0…50 °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, Pt100, Pt1000, Modbus
- **Memory Size:** 8 GB memory card standard

**INPUT SIGNALS**

<table>
<thead>
<tr>
<th>Current signals</th>
<th>Resolution</th>
<th>Accuracy</th>
<th>Input resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0…20 mA)</td>
<td>0.0001 mA</td>
<td>± 0.03 mA ± 0.05 %</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Voltage signal</td>
<td>(0…1 V)</td>
<td>± 0.2 mV ± 0.05 %</td>
<td>100 kΩ</td>
</tr>
<tr>
<td>Voltage signal</td>
<td>(0…10 V / 30 V)</td>
<td>± 2 mV ± 0.05 %</td>
<td>1 MΩ</td>
</tr>
<tr>
<td>RTD Pt 100</td>
<td>-200…850 °C</td>
<td>± 0.2 °C (-100…400 °C)</td>
<td>± 0.3 °C (further range)</td>
</tr>
<tr>
<td>RTD Pt 1000</td>
<td>-200…850 °C</td>
<td>± 0.2 °C (-100…400 °C)</td>
<td></td>
</tr>
<tr>
<td>Pulse</td>
<td>Min pulse length 500 µs frequency 0…1 kHz max. 30 VDC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Further sensors can be found on pages 32 to 35

www.cs-instruments.com