



testo 521/526

Precision Meters For All Pressure Ranges

Internal sensor, externally connected probes



hPa

bar

°C

m/s

m³/h

mA

mV

testo 526



Precision meters for all pressure ranges



testo 521 with internal sensor 0...100 hPa / 0.1%

The testo 521 is configured for precise differential pressure measurements in the VAC range, e.g. pressure drops at filters, inspection of fans and extraction equipment.

Pitot tube measurement: Flow velocities of 5 ... 100 m/s are measured via the internal pressure sensor. The external 100 Pa probe allows precise measurements in the 1 ... 12 m/s range. The advantages during flow measurement are direct calculation of the flow velocity and volume flow, averaging by points and time and automatic tightness compensation.

- Two probe sockets for connecting additional probes for measuring pressure, temperature, current and voltage
- Dynamic pressure measurement at a measuring rate of 0.04 seconds
- Calculation of the flow velocity and volume flow via pitot tube
- Available in 2 accuracy classes: 0.2 % and 0.1 % of full scale value

testo 526 with internal sensor from 0...2000 hPa / 0.05 %

The testo 526 is the pressure meter for industrial applications. Critical processes can be measured and monitored precisely with an accuracy of up to 0.05 % of full scale value. Pressure test: The integrated test menu in the hand instrument permits seamless recording, particularly for leak tests in containers. The data can be subsequently processed using the software or printed out via the printer so that the pressure test is documented.

- Two probe sockets for connecting additional probes for measuring pressure, temperature, current and voltage
- Dynamic pressure measurement at a measuring rate of 0.04 seconds
- Verification of the pressure drop in tanks, pipes etc. via the integrated test menu
- Measurement of the leakage rate (time-dependent pressure drop)
- Available in 2 accuracy classes: 0.1 % and 0.05 % of full scale value

testo 521/526 Features



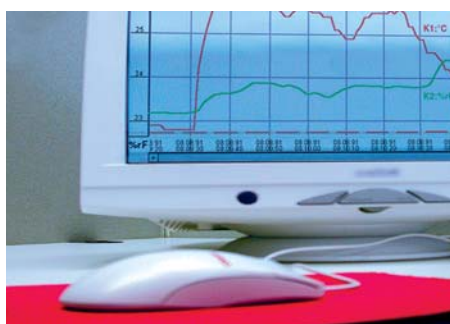
Precision meter for all pressure ranges: Differential pressure measurement at a filter with external pressure probe



Precision meter for any parameters: Testing a transmitter with 0/4 ... 20 mA interface



Documentation at the measuring site on printer



Easy data management on PC

Flexibility thanks to external probes

Additional probes can be connected to testo 521/526 pressure meters via 2 user defined probe sockets.

Precision meter for all pressure ranges

The differential pressure sensor is integrated in the testo 521 / 526. A large range of external pressure probes is available for additional applications:

- Probes for differential pressures up to 2000 hPa
- Probe for absolute pressures up to 2000 hPa
- Probes for relative pressures up to 400 bar

Precision meter for any parameters

- Probes can be connected to enable temperatures in the range -200...+1250 °C to be measured in air, liquid or on surfaces.
- The 0/4...20 mA interface allows a corresponding mA signal of a transmitter to be measured and simulated in the corresponding unit on the hand instrument. The major advantage: galvanic isolation for the 0/4...20 mA interface. The transmitter is powered via the hand instrument - no external power source required.

Advantages during measurement

- The short-text menu makes operation of the instrument much easier.
- The large, two-line LCD display shows two measuring channels; the arrow keys are used to switch over to the calculated parameters.
- The relative and differential pressure probes are zeroed directly via the P=O key.
- When measuring pressure, you can choose between the following units: mbar, hPa, bar, Pa, kPa, inH₂O, mmH₂O, torr and psi.
- Key for Hold, Max, Min and Mean.
- Hands-free: TopSafe (impact protection) incl. carrying strap and magnetic plate is a useful accessory.

Long-term monitoring even for dynamic measurements

- Measurement data can be stored individually or as a series of measurements. The measuring rate (0.04 seconds, 1 second, ... 24 hours) and the number of values to be stored can be freely selected. The storage capacity is 100 KB (approx. 25,000 measurements).
- Dynamic measurements can be stored in the measuring instrument every 0.04 seconds - for large data volumes, activate online measurement via the PC.

Documentation at the measurement site:

- The individual measurement protocols can be printed out on site on the printer without the need for cables.
- Temperature-sensitive paper allows measurement data to be documented with high legibility for up to 10 years.

Simple measurement management on PC

- The stored measurements can be conveniently analysed and processed via the software.
- The readings are logged and can be displayed online using the software.

Precision for years ahead from the Testo DKD laboratory

Our DKD laboratory for pressure, temperature and electrical parameters means that you can be sure that all requirements regarding measuring and calibration technology as well as quality assurance will be satisfied fully and completely. How you benefit:

- Independent verification by certified and accredited service providers.
- Traceability to national standards.
- Individual on-site documentation conforming to standards.

Overview of probes



Probes for differential pressures up to 2000 hPa
Dimensions: 116x80x40 mm



Probe for absolute pressures up to 2000 hPa_{abs}
Dimensions: 116x80x40 mm



Probes for relative pressures up to 400 bar
Dimensions: approx. 122x27 mm



0/4...20 mA interface
Dimensions: 116x80x40 mm



Temperature probes

Probes for differential pressures up to 2000 hPa

In robust metal housing with impact protection. The magnet on the rear and the hook ensure optimal positioning of the probe. The probe is connected to the meter via the plug-in head cable. The piezoresistive sensors are long-term stable and temperature-compensated. Area of application: measurements in air or non-corrosive and non-ionising gases.

Probes for absolute pressures up to 2000 hPa_{abs}

Housing, connection, sensor properties and area of application as for differential pressure probes.

Probes for relative pressures up to 400 bar

Very robust probes made from refrigerant-resistant stainless steel with screw-in thread 7/16" UNF (optional adapter 1/2" external and 1/4" internal thread available). The probe is connected to the meter via a connecting lead. The ceramic sensors are long-term stable and temperature-compensated. Suitable for all fluids, gases or vapours which can come into contact with stainless steel 1.4305 (303), ceramic Al₂O₃ and NBR.

0/4...20 mA interface

0/4 to 20 mA transmitters or external sensors in 2 or 4-wire systems can be connected to the 0/4...20 mA interface via terminals. 1 analogue signal can be analysed per interface. Up to 2 interfaces can be connected to the hand instrument. The major advantage is that the connected transmitter does not need its own power supply, because power is supplied directly via the testo 521/526 handheld meter. The analogue signal is scaled to the corresponding unit directly in the hand instrument.

Temperature probes

Numerous thermocouple and NTC probes for all areas of application can be connected to the testo 521/526, including air probes, surface probes and penetration probes.

Technical data: Probes for differential pressures up to 2000 hPa

| Meas. range | Accuracy * | Overload | Static pressure |
|--------------|--|----------|-----------------|
| 0...100 Pa | ± 0.3 Pa ± 0.5 % of reading | 50 hPa | 100 hPa |
| 0...10 hPa | ± 0.03 hPa | 50 hPa | 1000 hPa |
| 0...100 hPa | ± 0.1 hPa (0-20 hPa) ± 0.5 % of reading (20-100 hPa) | 300 hPa | 1000 hPa |
| 0...1000 hPa | ± 1 hPa (0-200 hPa) ± 0.5 % of reading (200-1000 hPa) | 2000 hPa | 1000 hPa |
| 0...2000 hPa | ± 2 hPa (0-400 hPa) ± 0.5 % of reading (400-2000 hPa) | 3000 hPa | 1000 hPa |

Temperature range (compensated): 0 ... +50 °C

Technical data: Probe for absolute pressures up to 2000 hPa_{abs}

| Meas. range | Accuracy * | Overload | Static pressure |
|-----------------------------|------------|----------|-----------------|
| 0...2000 hPa _{abs} | ± 5 hPa | 4000 hPa | - |

Temperature range (compensated): 0 ... +50 °C

Technical data: Probes for relative pressures up to 400 bar

| Meas. range | Accuracy * | Overload | |
|--------------|---------------------------|----------|--|
| -1...10 bar | ± 1 % of full scale value | 25 bar | |
| -1...30 bar | ± 1 % of full scale value | 120 bar | |
| -1...40 bar | ± 1 % of full scale value | 120 bar | |
| -1...100 bar | ± 1 % of full scale value | 250 bar | Temperature range: -40 ... +100 °C |
| -1...400 bar | ± 1 % of full scale value | 600 bar | Temperature compensation: 0 ... +70 °C |

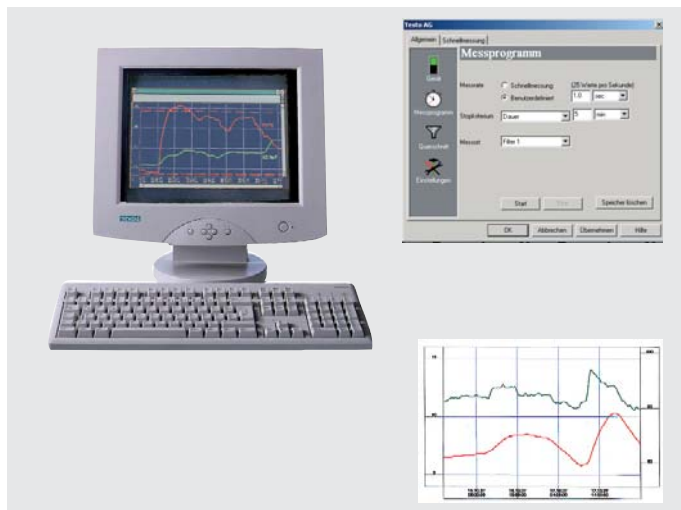
Technical data: 4...20 mA interface

| Meas. range | Accuracy | Channels | Auxiliary power output |
|-------------|-----------|---------------------------|-----------------------------|
| 0/4...20 mA | ± 0.04 mA | 1 (galvanically isolated) | 18 V DC ± 20 % (max. 24 mA) |

Temperature range: -20 ... +80 °C

* includes: linearity, hysteresis and reproducibility

Software and Accessories



ComSoft 3 Professional with measurement data management

Easy data management

The Windows®-compatible ComSoft 3 user interface allows stored data from the testo 521/526 pressure meters to be read out. The software enables stored measurement protocols to be simply archived in the data area by "Drag & Drop" or analysed in the work area. The readings are logged by the meter and can also be displayed online using the software.

In advance of measurements, you can, for instance, define measurement sites in the software which are then imported into the instrument.

Complex analysis - easy archiving

Analysing:

- with computation function
- with crosshair
- with averaging
- with calculation of the standard deviation

Imaging:

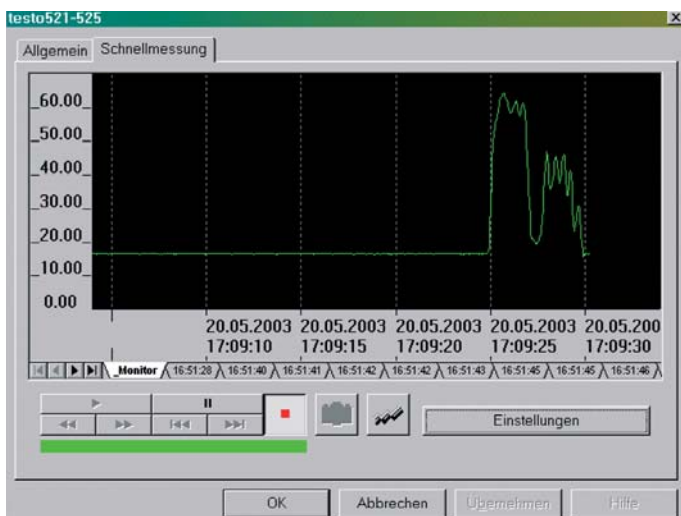
- as a table or graph
- as a number field or histogram
- measuring channels overlaid and screened out

Documenting:

- the data can be easily exported into Excel tables via "Copy and Paste"

Long-term monitoring of dynamic processes

The rapid measurement facility enables pressure peaks to be recorded every 0.04 seconds. Since pressure peaks occur unpredictably in most cases, the trigger function can be used to define a rule that filters out the pressure peaks and stores them separately for the user in the corresponding register pages.



Online monitoring of pressure peaks with ComSoft 3 Professional

Accessories



Ordering data

| Meters | | Accuracy | Part no. |
|--|--|-------------------------------------|-----------|
| testo 521-1, differential pressure meter 0...100 hPa incl. battery and calibration protocol | | Accuracy 0.2 % of full scale value | 0560 5210 |
| testo 521-2, differential pressure meter 0...100 hPa incl. battery and calibration protocol | | Accuracy 0.1 % of full scale value | 0560 5211 |
| testo 526-1, differential pressure meter 0...2000 hPa incl. quick-release coupling, battery and calibration protocol | | Accuracy 0.1 % of full scale value | 0560 5280 |
| testo 526-2, differential pressure meter 0...2000 hPa incl. quick-release coupling, battery and calibration protocol | | Accuracy 0.05 % of full scale value | 0560 5281 |

| Pressure probes | | | | | | |
|---|--------------|--|--|---|---|-----------|
| Differential pressure probes | Illustration | Probe type | Meas. range | Accuracy | Connection | Part no. |
| Precision pressure probe, 100 hPa, for measuring differential pressure and flow velocities (in combination with pitot tube), in robust metal housing with impact protection, incl. magnet for rapid positioning | | Differential pressure probe | 0 ... +100 Pa | ±(0.3 Pa ±0.5% of m.v.) (0 ... +100 Pa) | Plug-in head, connection lead 0430 0143 or 0430 0145 required | 0638 1347 |
| Pressure probe, 10 hPa, for measuring differential pressure and flow velocities (in combination with pitot tube), in robust metal housing with impact protection, incl. magnet for rapid positioning | | Differential pressure probe | 0 ... +10 hPa | ±0.03 hPa (0 ... +10 hPa) | Plug-in head, connection lead 0430 0143 or 0430 0145 required | 0638 1447 |
| Pressure probe, 100 hPa, for measuring differential pressure and flow velocities (in combination with pitot tube), in robust metal housing with impact protection, incl. magnet for rapid positioning | | Differential pressure probe | 0 ... +100 hPa | ±0.5% of m.v. (+20 ... +100 hPa) ±0.1 hPa (0 ... +20 hPa) | Plug-in head, connection lead 0430 0143 or 0430 0145 required | 0638 1547 |
| Pressure probe, 1000 hPa, for measuring differential pressure, in robust metal housing with impact protection, incl. quick-release coupling (for hoses 4x6 mm), magnet for rapid positioning | | Differential pressure probe | 0 ... +1000 hPa | ±1 hPa (0 ... 200 hPa) ±0.5% of m.v. (200 ... 1000 hPa) | Plug-in head, connection lead 0430 0143 or 0430 0145 required | 0638 1647 |
| Pressure probe, 2000 hPa, for measuring differential pressure, in robust metal housing with impact protection, incl. quick-release coupling (for hoses 4x6 mm), magnet for rapid positioning | | Differential pressure probe | 0 ... +2000 hPa | ±2 hPa (0 ... 400 hPa) ±0.5% of m.v. (400 ... 2000 hPa) | Plug-in head, connection lead 0430 0143 or 0430 0145 required | 0638 1747 |
| Absolute pressure probe | Illustration | Probe type | Meas. range | Accuracy | Connection | Part no. |
| Pressure probe, 2000 hPa, for measuring absolute pressure, in robust metal housing with impact protection, incl. quick-release coupling (for hoses 4x6 mm), magnet for rapid positioning | | Absolute pressure probe | 0 ... +2000 hPa | ±5 hPa (0 ... +2000 hPa) | Plug-in head, connection lead 0430 0143 or 0430 0145 required | 0638 1847 |
| Relative pressure probes | Illustration | Probe type | Meas. range | Accuracy | Connection | Part no. |
| Low-pressure probe made from refrigerant-resistant stainless steel, up to 10 bar | | Screw-in thread 7/16" UNF Relative pressure probe | -1 ... +10 bar | ±1% of fsv (-1 ... +10 bar) Overload 25 bar | Plug-in head, connection lead 0409 0202 required | 0638 1741 |
| High-pressure probe made from refrigerant-resistant stainless steel, up to 30 bar | | Screw-in thread 7/16" UNF Relative pressure probe | -1 ... +30 bar | ±1% of fsv (-1 ... +30 bar) Overload 120 bar | Plug-in head, connection lead 0409 0202 required | 0638 1841 |
| High-pressure probe made from refrigerant-resistant stainless steel, up to 40 bar | | Screw-in thread 7/16" UNF Relative pressure probe | -1 ... +40 bar | ±1% of fsv (-1 ... +40 bar) Overload 120 bar | Plug-in head, connection lead 0409 0202 required | 0638 1941 |
| High-pressure probe made from refrigerant-resistant stainless steel, up to 100 bar | | Screw-in thread 7/16" UNF Relative pressure probe | -1 ... +100 bar | ±1% of fsv (-1 ... +100 bar) Overload 250 bar | Plug-in head, connection lead 0409 0202 required | 0638 2041 |
| High-pressure probe made from refrigerant-resistant stainless steel, up to 400 bar | | Screw-in thread 7/16" UNF Relative pressure probe | -1 ... +400 bar | ±1% of fsv (-1 ... +400 bar) Overload 600 bar | Plug-in head, connection lead 0409 0202 required | 0638 2141 |
| Current/voltage probes | Illustration | Meas. range | Accuracy | Connection | Part no. | |
| Current/voltage cable (±1 V, ±10 V, 20 mA) | | 0 ... +1000 mV 0 ... +10 V 0 ... +20 mA | ±1 mV (0 ... +1000 mV) ±0.01 V (0 ... +10 V) ±0.04 mA (0 ... +20 mA) | Fixed line | 0554 0007 | |
| 4 ... 20 mA interface (galvanically isolated) for connection and the temporary power supply of transmitters (scaling via hand instrument), in robust metal housing with impact protection, incl. magnet for quick positioning | | 0/4 ... 20 mA | ±0.04 mA | Plug-in head, connection lead 0430 0143 or 0430 0145 required | 0554 0528 | |
| Temperature probes | Illustration | Meas. range | Accuracy | t ₉₉ | Connection | Part no. |
| Super quick-action surface sensor with sprung thermocouple strip, measurement range short-term up to +500 °C | | -200 ... +300 °C | Class 2 | 3 s | Plug-in head, connection lead 0430 0143 or 0430 0145 required | 0604 0194 |
| Pipe wrap probe for pipes with diameter of up to 2", for flow/return temperature measurement | | -60 ... +130 °C | Class 2 | 5 s | Fixed cable extended | 0600 4593 |
| Super quick-action immersion/penetration sensor for measurements in liquids | | -200 ... +600 °C | Class 1 | 1 s | Plug-in head, connection lead 0430 0143 or 0430 0145 required | 0604 0493 |
| High-precision air probe for air and gas temperature measurements with bare, mechanically protected sensor | | -40 ... +130 °C | To UNI curve | 60 s | Fixed cable extended | 0610 9714 |

Other temperature probes can be connected. Ask our sales team.

Ordering data / Technical data

| Prandtl pitot tubes | Illustration | Meas. range | Part no. |
|---|--------------|------------------------------|-----------|
| Pitot tube, 350 mm long, stainless steel, measures velocity in combination with pressure probes 0638 1347/...1447/...1547 | | Oper. temp. 0 ... +600 °C | 0635 2145 |
| Pitot tube, 500 mm long, stainless steel, measures velocity in combination with pressure probes 0638 1347/...1447/...1547 | | Oper. temp. 0 ... +600 °C | 0635 2045 |

| Probe accessories | Part no. | Probe accessories | Part no. |
|---|-----------|---|-----------|
| Cable, 1.5 m long, connects sensor with plug-in head to meter Coating material PUR | 0430 0143 | Connecting hose set, (4x6 mm), 2 x 1 m, coiled, incl. 1/8" screw connection pressure-resistant up to 20 bar, for probes 0638 1647/1747/1847 | 0554 0441 |
| Cable, 5 m long, connects sensor with plug-in head to meter Coating material PUR | 0430 0145 | Cable, 2.5 m long, for pressure probes 0638 1741/1841/1941/2041/2141 | 0409 0202 |
| Connecting hose, silicone, (4x6 mm), 5 m long Max. load 700 hPa (mbar) | 0554 0440 | Adapter for pressure probes, 1/2" external thread, 1/4" internal thread for pressure probes 0638 1741/1841/1941/2041/2141 | 0699 3127 |

| Ordering data for accessories | Part no. | Technical data | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------------------|--|---|---|-------------|-------------|-------------|-------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------------|---------------|---------------|----------------|----------------|----------|---------|---------|----------|----------|-----------------|----------|----------|----------|----------|--------------------|--------------|--------------|--------------|---------------|------------|-----------|-----------|---|---|------------|------------------|------------------|------------------|------------------|--------|-------|-------|-------|-------|
| 9 V rechargeable battery for meter instead of battery | 0515 0025 | <table border="1"> <thead> <tr> <th></th> <th>testo 521-1</th> <th>testo 521-2</th> <th>testo 526-1</th> <th>testo 526-2</th> </tr> </thead> <tbody> <tr> <td>Sensor type</td> <td>Piezoresistive pressure sensor</td> <td>Piezoresistive pressure sensor</td> <td>Piezoresistive pressure sensor</td> <td>Piezoresistive pressure sensor</td> </tr> <tr> <td>Measuring range</td> <td>0 ... 100 hPa</td> <td>0 ... 100 hPa</td> <td>0 ... 2000 hPa</td> <td>0 ... 2000 hPa</td> </tr> <tr> <td>Overload</td> <td>300 hPa</td> <td>300 hPa</td> <td>3000 hPa</td> <td>3000 hPa</td> </tr> <tr> <td>Static pressure</td> <td>2000 hPa</td> <td>2000 hPa</td> <td>2000 hPa</td> <td>2000 hPa</td> </tr> <tr> <td>Accuracy ± 1 digit</td> <td>±0.2% of fsv</td> <td>±0.1% of fsv</td> <td>±0.1% of fsv</td> <td>±0.05% of fsv</td> </tr> <tr> <td>Resolution</td> <td>0.001 hPa</td> <td>0.001 hPa</td> <td>0.01 hPa (0 ... <1000 hPa) 0.1 hPa (1000 ... 2000 hPa)</td> <td>0.01 hPa (0 ... <1000 hPa) 0.1 hPa (1000 ... 2000 hPa)</td> </tr> <tr> <td>Dimensions</td> <td>219 x 68 x 50 mm</td> <td>219 x 68 x 50 mm</td> <td>229 x 68 x 50 mm</td> <td>229 x 68 x 50 mm</td> </tr> <tr> <td>Weight</td> <td>300 g</td> <td>300 g</td> <td>322 g</td> <td>322 g</td> </tr> </tbody> </table> | | testo 521-1 | testo 521-2 | testo 526-1 | testo 526-2 | Sensor type | Piezoresistive pressure sensor | Piezoresistive pressure sensor | Piezoresistive pressure sensor | Piezoresistive pressure sensor | Measuring range | 0 ... 100 hPa | 0 ... 100 hPa | 0 ... 2000 hPa | 0 ... 2000 hPa | Overload | 300 hPa | 300 hPa | 3000 hPa | 3000 hPa | Static pressure | 2000 hPa | 2000 hPa | 2000 hPa | 2000 hPa | Accuracy ± 1 digit | ±0.2% of fsv | ±0.1% of fsv | ±0.1% of fsv | ±0.05% of fsv | Resolution | 0.001 hPa | 0.001 hPa | 0.01 hPa (0 ... <1000 hPa) 0.1 hPa (1000 ... 2000 hPa) | 0.01 hPa (0 ... <1000 hPa) 0.1 hPa (1000 ... 2000 hPa) | Dimensions | 219 x 68 x 50 mm | 219 x 68 x 50 mm | 229 x 68 x 50 mm | 229 x 68 x 50 mm | Weight | 300 g | 300 g | 322 g | 322 g |
| | testo 521-1 | | testo 521-2 | testo 526-1 | testo 526-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sensor type | Piezoresistive pressure sensor | Piezoresistive pressure sensor | Piezoresistive pressure sensor | Piezoresistive pressure sensor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measuring range | 0 ... 100 hPa | 0 ... 100 hPa | 0 ... 2000 hPa | 0 ... 2000 hPa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Overload | 300 hPa | 300 hPa | 3000 hPa | 3000 hPa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Static pressure | 2000 hPa | 2000 hPa | 2000 hPa | 2000 hPa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Accuracy ± 1 digit | ±0.2% of fsv | ±0.1% of fsv | ±0.1% of fsv | ±0.05% of fsv | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Resolution | 0.001 hPa | 0.001 hPa | 0.01 hPa (0 ... <1000 hPa) 0.1 hPa (1000 ... 2000 hPa) | 0.01 hPa (0 ... <1000 hPa) 0.1 hPa (1000 ... 2000 hPa) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions | 219 x 68 x 50 mm | 219 x 68 x 50 mm | 229 x 68 x 50 mm | 229 x 68 x 50 mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 300 g | 300 g | 322 g | 322 g | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plug-in mains unit for mains operation and charging the rechargeable batteries in the instrument | 0554 0088 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TopSafe (indestructible protection case) incl. carrying strap, table stand and magnet. Protects the instrument against dust, impact and scratches | 0516 0446 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testo printer with 1 roll of temp.-sensitive paper and 4 mignon batteries for printing out readings on site | 0554 0545 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Charger for printer (with 4 standard rechargeable batteries) Rechargeable batteries are recharged externally | 0554 0110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spare temperature-sensitive paper for printer (6 rolls) | 0554 0569 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spare temperature-sensitive paper for printer (6 rolls) Measurement data documentation legible for up to 10 years | 0554 0568 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ComSoft 3 Professional with measurement data management incl. database, analysis and graphics function, data analysis, trend curve | 0554 0830 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RS232 lead | 0409 0178 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Connecting lead from instrument to PC (1.8 m) for data transfer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet adapter, RS 232 - Ethernet incl. software driver, power supply unit enables data communication in the network | 0554 1711 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transport case for meter, probes, Prandtl pitot tube, accessories | 0516 0527 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| System case for meter, probes, straight or Prandtl pitot tube, accessories | 0516 0526 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DKD calibration certificate/Pressure | 0520 0205 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Differential pressure, accuracy < 0.1 (% of full scale value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DKD calibration certificate/Pressure | 0520 0215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Differential pressure, accuracy 0.1 ... 0.6 (% of full scale value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DKD calibration certificate/Pressure | 0520 0225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Differential pressure, accuracy > 0.6 (% of full scale value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DKD calibration certificate/Pressure | 0520 0212 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Absolute pressure, accuracy 0.1 ... 0.6 (% of full scale value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISO calibration certificate/Pressure | 0520 0035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Differential pressure, accuracy < 0.1 (% of full scale value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISO calibration certificate/Pressure | 0520 0025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Differential pressure, accuracy 0.1 ... 0.6 (% of full scale value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISO calibration certificate/Pressure | 0520 0005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Differential pressure, accuracy > 0.6 (% of full scale value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISO calibration certificate/Pressure | 0520 0125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Absolute pressure, accuracy 0.1 ... 0.6 (% of full scale value) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISO calibration certificate/Temperature | 0520 0001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| for air/immersion probe, calibration points -18 °C; 0 °C; +60 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISO calibration certificate/Temperature | 0520 0021 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meas. instr. with air/immersion probe, calib. points +150 °C; 0 °C; +300 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISO calibration certificate/Temperature | 0520 0071 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measuring instr. with surface probe, calib. points +60 °C; +120 °C; +180 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DKD calibration certificate/Temperature | 0520 0211 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meas. instr. with air/immersion probe, calib. points -20 °C; 0 °C; +60 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DKD calibration certificate/Temperature | 0520 0271 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Surface temp. probe touching, calibration points +100 °C; +200 °C; +300 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISO calibration certificate/Electrical | 0520 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Common data | | | | |
|---------------------------|---|---|--|---|
| Sensor type | Piezoresistive press. sensor for external pressure probes | Ceramic sensor for ext. pressure probes | NTC | |
| Measuring range | 0 ... 2000 hPa | -1 ... 400 bar | -40 ... +150 °C | |
| Accuracy * ± 1 digit | ±0.1 % of reading | ±0.2 % of reading | ±0.2 °C (-10 ... +50 °C) ±0.4 °C (rem. meas. range) | |
| Resolution | 0.1 Pa (0638 1347) 0.001 hPa (0638 1447) 0.01 hPa (0638 1547) 0.1 hPa (0638 1647; 0638 1747; 0638 1847) | 0.01 bar | 0.1 °C | |
| Sensor type | Type K (NiCr-Ni) | Volt. measur. (0554 0007) | Curr. measur. (0554 0007) | Current measur. (0554 0528) |
| Measuring range | -200 ... +1370 °C | 0 ... 10 V | 0 ... 20 mA | 0 ... 20 mA |
| Accuracy * ± 1 digit | ±0.4 °C (-100 ... +200 °C) ±1 °C (remaining meas. range) | ±0.01 V | ±0.04 mA | see sensor data |
| Resolution | 0.1 °C | 0.01 V | 0.01 mA | 0.01 mA |
| Oper. temp. (compensated) | 0 ... +50 °C | Connection | | Hose: Ø internal 4 mm Ø external 6 mm |
| Storage temp. | -20 ... +70 °C | Housing material | | ABS |
| Battery type | 9 V (6LR61) | Memory | | 100 KB (corresp. to approx. 25.000 measurements) |
| Power supply | Battery/rech. battery, PSU 12V | PC | | RS232 interface |
| Battery life | In permanent operation with internal pressure sensor (AIMn): 30 h. With rechargeable battery (NiMH): 10 h. With zinc carbon: 18 h | Miscellaneous | | Mains connection and battery charging in the instrument Automatic detection of all connected sensors |
| Display | LCD display with symbol, 7-segment display and dot matrix | Warranty | | 2 years |
| Refresh rate of display | 2x per second, for quick measurements 4x per sec. | | | |

* Accuracy figures apply only for the instrument (without connected probe).

