

Pressure meters for all measurement ranges

testo 521-1/-2 with internal sensor 0 to 100 hPa

Highly accurate with internal differential pressure sensor, ideal for inspecting extraction units and ventilators and for monitoring pressure drops in filters. When used with the Pitot tube, the internal pressure sensor measures velocities from 5 - 100 m/s. The 100 Pa probe, which can be connected externally, measures accurately from 1 - 276 m/s.

- Temp. compensated differential pressure sensor built into instrument
- Calculation of velocity and volume flow via Pitot tube measurement
- Multi-point and timed mean calculation
- 2 probe sockets for pressure and temperature

testo 521-3 with internal sensor 0 to 250 Pa

Using testo 521-3 even the smallest differential pressures up to 250 Pa are measured. High accuracy and a resolution of 0.1 Pa mean the instrument is ideal for differential pressure measurements in clean rooms.

When used with a Pitot tube, the internal pressure sensor measures flow speeds in the range 1 to 20 m/s.

Save data according to site and analyse on PC/notebook



Pitot tube measurement with external 100 Pa probe

testo 521-1 / 0 ... 100 hPa

Accuracy 0.2% of fsv

Differential pressure meter 0 to 100 hPa incl. battery and calibration protocol

Part no. 0560 5210

testo 521-2 / 0 to 100 hPa

Accuracy 0.1% of fsv

Differential pressure meter 0 to 100 hPa incl. battery and calibration protocol

Part no. 0560 5211

testo 521-3 / 0 to 2.5 hPa

Accuracy up to ± 0.5 Pa

testo 521-3, differential pressure meter 0 to 2.5 hPa, battery and calibration protocol included

Part no. 0560 5213

Accessories Ordering data

Accessories Ordering data	Part no.
Connection hose, silicone, 5m long, max. load 700 hPa (mbar)	0554 0440
Connection hose set, 2 x 1 m, coiled, incl. 1/8" screw connection, Pressure-tight up to 20 bar, for probe 0638 1647/1747/1847	0554 0441
Cable, 1.5 m long, connects probe with plug-in head to meas. instrument, PUR coating material	0430 0143
TopSafe (protection case), incl. carrier strap, bench stand and magnet. Protects instrument from dust, impact, scratches	0516 0446
Testo printer with wireless infrared interface, 1 roll of thermal paper and 4 AA batteries	0554 0547
External fast charger for 1-4 AA rech. batteries, incl. 4 Ni-MH rech. batteries with individual cell charging and charge control display, incl. impulse trickle charging, integrated discharge function, with built-in international mains plug, 100-240 V, 300 mA, 50/60 Hz	0554 0610
ComSoft 3 - Professional with data management, incl. database, analysis and graphics function, data analysis, trend curve	0554 0830
RS232 cable, connects instrument to PC (1.8 m) for data transfer	0409 0178
Transport case, for measuring instrument, probes, Prandtl Pitot tube, accessories	0516 0527

Technical data

testo 521-1 / testo 521-2

Probe type	Piezoresistive pressure sensor (internal)	Piezoresistive pressure sensor for external pressure probes
Meas. range	0 ... 100 hPa	0 to 2000 hPa
Accuracy ± 1 digit	± 0.2 % of fsv (testo 521-1) ± 0.1 % of fsv (testo 521-2)	± 0.1 % of mv
Resolution	0.01 hPa	0.1 Pa (0638 1347) 0.001 hPa (0638 1447) 0.1 hPa (0638 1647; 0638 1747; 0638 1847)
Overload	300 hPa	
Static pressure	2000 hPa	

testo 521-3

Probe type	Piezoresistive pressure sensor (internal)	Piezoresistive pressure sensor for external pressure probes
Meas. range	0 to 2.5 hPa	0 to 2000 hPa
Accuracy ± 1 digit	± 0.5 Pa (0 to 20 Pa) $\pm (0.5 \text{ Pa} \pm 0.5\% \text{ of mv})$ (20.1 to 250 Pa)	± 0.1 % of mv
Resolution	0.1 Pa	0.1 Pa (0638 1347) 0.001 hPa (0638 1447) 0.1 hPa (0638 1647; 0638 1747; 0638 1847)
Overload	50 hPa	
Static pressure	100 hPa	

Common data

Oper. temp. (compensated)	0 to +50 °C	Dimensions	219 x 68 x 50 mm
Storage temp.	-20 to +70 °C	Weight	300 g
Memory	25,000	Display	LCD, 2 lines
PC	RS232 interface	Battery type	9 V (6LR61)

Differential pressure probes	Illustration	Meas. range	Accuracy	Conn.	Part no.
Pressure probe in robust metal housing with impact protection, incl. magnet for fast attachment, measures differential pressure and flow speeds (in combination with Pitot tube)		0 to +100 Pa	$\pm(0.3 \text{ Pa} \pm 0.5\% \text{ of mv})$	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0638 1347
Pressure probe, 10 hPa, in robust metal housing with impact protection incl. magnet for fast attachment, to measure differential pressure and flow speeds (in combination with Pitot tube)		0 to +10 hPa	$\pm 0.03 \text{ hPa}$	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0638 1447
Pressure probe, 1000 hPa, measures differential pressure, in robust metal housing with impact protection, incl. quick-closing coupling (M8 x 0.5), magnet for fast attachment		0 to +1000 hPa	$\pm 1 \text{ hPa}$ (0 to 200 hPa) $\pm 0.5\% \text{ of mv}$ (200 to 1000 hPa)	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0638 1647
Pressure probe, 2000 hPa, measures differential pressure, in robust metal housing with impact protection, incl. quick-closing coupling (M8 x 0.5), magnet for fast attachment		0 to +2000 hPa	$\pm 2 \text{ hPa}$ (0 to 400 hPa) $\pm 0.5\% \text{ of mv}$ (400 to 2000 hPa)	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0638 1747
Absolute pressure probe	Illustration	Meas. range	Accuracy	Conn.	Part no.
Pressure probe, 2000 hPa, measures absolute pressure, in robust metal housing with impact protection, incl. quick-closing coupling (M8 x 0.5), magnet for fast attachment		0 to +2000 hPa	$\pm 5 \text{ hPa}$ (0 to +2000 hPa)	Plug-in head, connection cable 0430 0143 or 0430 0145 required	0638 1847
Pitot tubes	Illustration	Meas. range	Accuracy	Oper. temp.	Part no.
Pitot tube, 350 mm long, stainless steel, measures flow speed		350 mm	$\varnothing 7 \text{ mm}$	0 to +600 °C	0635 2145
Pitot tube, 500 mm long, stainless steel, measures flow speed		500 mm	$\varnothing 7 \text{ mm}$	0 to +600 °C	0635 2045
Temperature probes	Illustration	Meas. range	Accuracy	t99	Part no.
Pipe wrap probe for pipes with diameter of up to 2", for flow/return temp. meas. in hydronic systems		-60 to +130 °C	Class 2	5 s	0600 4593
Highly accurate air probe for air and gas temperature measurements with bare, mechanically protected sensor		-40 to +130 °C	To UNI curve	60 s	0610 9714