

# Differential pressure measuring instrument

**testo 312-4 – For gas and water installers**

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Gas-tightness and serviceability test by pressure drop on gas pipes according to DVGW-TRGI 2008

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Load test on gas pipes according to DVGW-TRGI 2008 with the help of the high pressure probe

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Checking the regulator by recording the measurement values over a defined period

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Checking the gas connection pressure and gas flow pressure as well as setting the jet pressure on gas burners and boilers

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Pressure tests on drinking water pipes with water using the high-pressure probe according to DIN 1988 (TRWI) as well as with air according to the ZVSHK information sheet

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Pressure test on waste water pipes according to DIN EN 1610 using the high pressure probe

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With the electronic differential pressure gauge testo 312-4, fine pressure measurements can be carried out quickly and reliably when checking the resting pressure and flow pressure of gas, and when setting the correct jet pressure on gas burners and boilers.

Tests on newly installed gas pipes (load and gas-tightness tests), or on pipes already in use (serviceability tests) can also be carried out quickly and in accordance with the law. Time and money can be saved in customer service when checking the gas pressure regulator, thanks to the automatic measurement value recording over several hours by testo 312-4 (max. 25,000 measurement values).

The simultaneous recording of pressure and temperature allows the detection of unusual pressure fluctuations which are graphically analyzed by the Easyheat PC software, and can thus be easily explained to the customer.

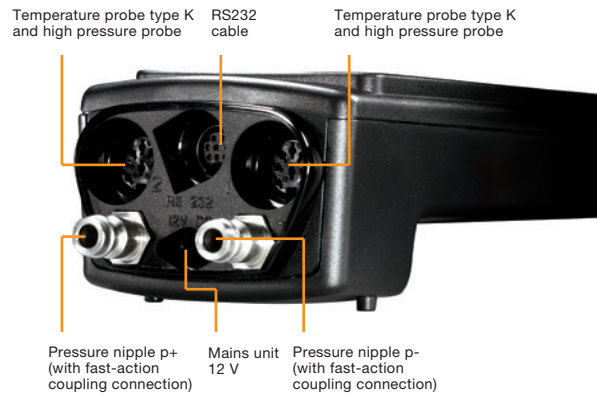
Load tests and leakproofness tests on drinking water and waste water pipes can be carried out without complications using the handy high-pressure probe. The external probe provides protection for the instrument from water and high pressures.

# Ordering data / Technical data

**testo 312-4**

testo 312-4 differential pressure meter incl. battery and calibration protocol

Part no. 0632 0327

**Basic set testo 312-4**

testo 312-4 differential pressure gauge  
 testo 312-4 hose set  
 balloon pump with release screw  
 conical test plug 1/2  
 conical test plug 3/4  
 testo fast printer  
 pressure set for gas pressure measurements in heating systems  
 system case



Part no. 0563 1327

Illustration may differ from original

**High-pressure set testo 312-4**

testo 312-4 differential pressure gauge  
 testo 312-4 hose set  
 balloon pump with release screw  
 conical test plug 1/2  
 conical test plug 3/4  
 testo fast printer  
 pressure set for gas pressure measurements on heating systems  
 high-pressure plug 3/8 and 3/4  
 high-pressure plug 1/2 and 1  
 high-pressure probe 1 up to 25 bar  
 system case



Part no. 0563 1328

Illustration may differ from original

**Sensor types**

	<b>Pressure (internal sensor in the testo 312-4)</b>	<b>Pressure (via high-pressure probe)</b>	<b>Temperature (via external temperature probe Type K)</b>
Measuring range	0 to 200 hPa	0 to 25 bar	dependent on probe type used
Accuracy ±1 digit	±0.03 hPa (0 to +3 hPa) ±1.5% of m.v. (+3.1 to +40 hPa) ±2 hPa or ±1% of fsv (+41 to +200 hPa)	±0.6% of fsv (0 to 10 bar) ±0.6% of fsv (>10 to 25 bar)	±0.4 °C (-100 to +200 °C) ±1 °C (remaining range)
Resolution	0.01 hPa	10 hPa	0.01 °C

**General technical data**

PC software	Easyheat
Interface for printer	infrared
Interface for PC	RS 232
Measurement data store	Approx. 25.000 readings

Weight	Approx. 600 g
Dimensions	219 x 68 x 50 mm
Measurement rate	auto 1 s to 24 h fast 0.04 s

# Accessories

<b>Accessories for measuring instrument testo 312-4</b>	<b>Part no.</b>
Pressure set for gas pressure measurement on heating systems	0554 0449
testo 312-4 hose set	0554 3172
9V rech. battery for instrument	0515 0025
Desk-top power supply with international connection options	0554 1143
TopSafe (protection case)	0516 0446
easyheat PC analysis software, shows measurement in form of diagrams, tables and manages customer data.	0554 3332
RS232 cable	0409 0178
Testo fast printer IrDA with wireless infrared interface; 1 roll thermal paper; 4 AA batteries	0554 0549
Spare thermal paper for printer, permanent ink	0554 0568
Instrument case (height: 130 mm) for instrument, probes and accessories	0516 3300
testo 316-1 electronic gas leak detector with flexible probe and battery	0632 0316
testo 316-1 TopSafe; protection case, incl. stand, protects from dirt and impact	0516 0189
testo 316-2 testo 316-2 electronic gas leak detector with flexible measurement probe, mains charger and earphones	0632 3162
testo 316-Ex testo 316-EX, electronic gas leak detector with EX-protection, incl. batteries, cases, Allen key and calibration protocol	0632 0336
Balloon pump with release valve	0554 3173
Conical test stop 1/2" (19 - 32mm)	0554 3151
Conical test stop 3/4" (24 - 44 mm)	0554 3155
Single-pipe counter cap, connects test fittings to pipe	0554 3156
Test pump for creating test pressure	0554 3157
High-pressure probe up to 25 bar	0638 1748
High-pressure stage stop 3/8 and 3/4; to connect test set to gas pipe	0554 3163
High-pressure stage stop 1/2 and 1; to connect test set to gas pipe	0554 3164
Very fast reaction surface probe	0604 0194
Connection cable, length 1.5 m, for probes with plug-in heads	0430 0143

