

Pressure measuring instruments

For gas and water installers

testo 312-2
testo 312-3
testo 312-4



Pressure meters for gas and water fitters

testo 312-2

testo 312-2, fine pressure measuring instrument up to 40/200 hPa, DVGW approval, incl. alarm display, battery and calibration protocol

Part no. 0632 0313



Use the testo 312-2 fine pressure measuring instrument to check flue gas draught, differential pressure in the combustion chamber compared with ambient pressure or gas flow pressure with high resolution. Fine pressures with a resolution of 0.01 hPa can be measured in the range from 0 to 40 hPa.

DVGW approval according to TRGI for pressure settings and pressure tests on a gas boiler.

- Switchable precision range with a high resolution
- Compensation of measurement fluctuations caused by temperature
- Alarm display when user-defined limit values are exceeded
- Clear display with time

testo 312-3

testo 312-3 versatile pressure meter up to 300/600 hPa, DVGW approval, incl. alarm display, battery and calibration protocol

Part no. 0632 0314



The versatile pressure measuring instrument testo 312-3 supports load and gas-rightness tests on gas and water pipelines up to 6000 hPa (6 bar) quickly and reliably. Everything you need to inspect gas and water pipe installations: with the electronic pressure measuring instrument testo 312-3, pressure- and gas-tightness can be tested. Via pressure drop, you can quickly determine the amount of gas leaking and the serviceability of the gas pipelines. A gas leak is quickly detected by testo 316-1.

- Load and gas-tightness test on gas pipes
- Pressure test on water pipes
- Fast measurement of gas leak quantity
- Switchable precision range with a high resolution
- Compensation of measurement fluctuations caused by temperature
- Alarm display when user-defined limit values are exceeded
- Clear display with time

Technical data testo 312-2 / testo 312-3

Sensor types

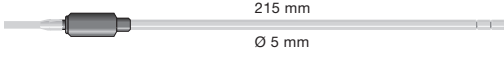
	testo 312-2		testo 312-3	
	-40 to +40 hPa	-200 to +200 hPa	-300 to +300 hPa	-6.000 to +6.000 hPa
Meas. range	-40 to +40 hPa	-200 to +200 hPa	-300 to +300 hPa	-6.000 to +6.000 hPa
Accuracy ± 1 digit	± 0.03 hPa (0 to +3 hPa) $\pm 1.5\%$ of mv (+3 to +40 hPa)	± 0.5 hPa (0 to +50 hPa) $\pm 1.5\%$ of mv (>50 hPa)	± 0.5 hPa (0 to +50 hPa) $\pm 1.5\%$ of mv (≥ 50 hPa)	± 4 hPa (0 to +400 hPa) $\pm 2\%$ of mv (+400 to +2.000 hPa) $\pm 4\%$ of mv (+2.000 to +6.000 hPa)
Resolution	0.01 hPa	0.1 hPa	0.1 hPa	1 hPa
Overload	± 1.000 hPa		± 8.000 hPa	

Common data

Storage temp.	-20 to +60 °C
Oper. temp.	+5 to +45 °C
Battery type	9V block battery
Weight	300 g
Dimensions	215 x 68 x 47 mm
Material/Housing	ABS
Display	LCD, 2 lines

Other features	Measurement range can be switched from ± 40 hPa to ± 200 hPa Adjustment step: 0.01 hPa or 5 hPa
Alarm threshold	-0.04 hPa and 100 hPa
Alarm display:	audible and visible if limit values are reached
Warranty	2 years Warranty conditions see internet page www.testo.com/warranty

Accessories testo 312-2 / testo 312-3

Probes		Part no.
Pressure set with flue draught probe, consisting of: 2 x silicone hoses Ø 4 mm and Ø 6 mm respectively, 4 mm and 6 mm T-piece, connection piece		0554 3150
Printer and accessories		
Testo fast printer IRDA with wireless infrared interface; 1 roll thermal paper; 4 AA batteries; for printing out measurements on site		0554 0549
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
Spare thermal paper for printer (6 rolls), permanent ink, measurement data documentation legible for up to 10 years		0554 0568
Additional accessories and spare parts		
9V rech. battery for instrument		0515 0025
Recharger for 9V rechargeable battery, for external recharging of 0515 0025 battery		0554 0025
Transport and Protection		
testo 312 / testo 315 TopSafe; protection case with bench stand; protects instrument from dirt and impact , protects instrument from dirt and impact		0516 0443
testo 312 Case for secure storage of measuring instrument, for secure storage of measuring instrument		0516 0191
Transport case; plastic;; for transport and secure storage of measuring instrument and accessories		0516 3120
Calibration certificates		
ISO calibration certificate pressure, differential pressure; 5 points distributed over meas. range		0520 0005

Accessories for testing system set

Pressure drop test set 200mbar, incl. manual bulb pump, hoses, T-fitting w/ valve, conical test stopper 1/2	0554 3153
Test pump to produce test pressure	0554 3157
Single-pipe counter cap, connects test fittings to pipe	0554 3156
Two-valve branch (brass); to connect 2 or more pipes, can be sealed separately	0554 3161
Single-valve stop to seal pipe; e.g. when changing hoses during a test	0554 3162
Conical test stop 1/2" (19 - 32mm)	0554 3151
Conical test stop 3/4" (24 - 44 mm)	0554 3155
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
Leak detection spray for spraying on the gas pipe, shows leaking points where bubbles form	0554 3166
testo 312-2/-3 system case for the complete test system, Ensures orderly storage of case contents	0554 3165
DAkkS calibration certificate/pressure, diff. and pos. pressure; 6 meas. points distributed over meas. range (>0.6% of fsv)	0520 0225

Set testo 312-2 / testo 312-3

Testing system set

testing system set:	
testo 312-3 pressure meter	connection hose LW6
testo 312 TopSafe	conical test plugs 1/2, 3/4
fast printer	high pressure stage stops 3/8,
testo 316-1 gas leak detector	3/4, 1/2, 1
316-1 TopSafe	leak detection spray
pressure drop test set 200mbar	system case
testing pump	
single-pipe counter cap	
two valve T-fitting	
single valve barrier	



Part no. 0563 0314

High pressure set with case (without instrument)

Pressure drop test set, 200 mbar
 Testing pump, greater than 500 mbar
 Single-pipe counter cap
 Two-valve T-fitting
 Single-valve barrier
 Connection hose LW
 Conical test plugs 1/2" and 3/4"
 High pressure stage stop 3/8", 1/2", 3/4", and 1"
 Leak detection spray
 System case

Part no. 0554 3160

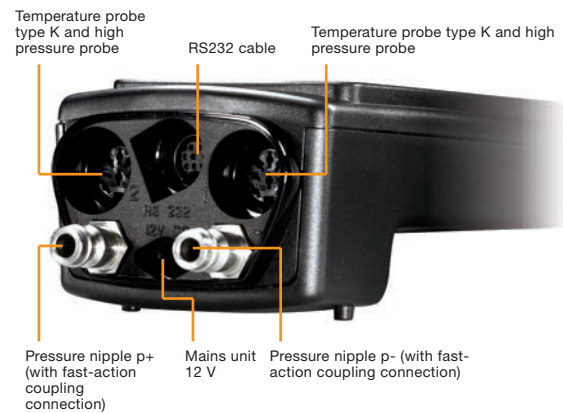
Please order the testo 312-3 or testo 312-2 instrument suitable for your requirements

Recommended set testo 312-2

The complete maintenance set with documentation

- Pressure measuring instrument up to 40/200 hPa (Part no. 0632 0313)
- testo 312 / testo 315 TopSafe; protection case with bench stand; protects instrument from dirt and impact (Part no. 0516 0443)
- Pressure set (Part no. 0554 3150)
- Pressure set (Part no. 0632 0316)
- testo 316-1 TopSafe; protection case, incl. stand, protects from dirt and impact (Part no. 0516 0189)
- Testo report printer (Part no. 0554 0549)
- Transport case; plastic; (Part no. 0516 3120)

Fulfilling all measurement tasks on gas heating systems and on gas and water pipes.



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. The user-friendly menu structure for the respective measurements considerably eases work.

Time and money can be saved in customer service, especially 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 use of special C-Flex hoses guarantees the gas-tightness of the hoses, particularly in long-term measurements. 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 excellent protection for the instrument from water and high pressures.

- Gas-tightness and serviceability test by pressure drop on gas pipes according to DVGW-TRGI 2008
- Load test on gas pipes according to DVGW-TRGI 2008 with the help of the high pressure probe
- Checking the regulator by recording the measurement values over a defined period
- Checking the gas connection pressure and gas flow pressure as well as setting the jet pressure on gas burners and boilers
- 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
- Pressure test on waste water pipes according to DIN EN 1610 using the high pressure probe

Technical data testo 312-4

Sensor types

	Pressure (internal sensor in the testo 312-4)	Pressure (via high-pressure probe)	Temperature (via external temperature probe Type K)
Meas. range	0 to 200 hPa	0 to 25 bar	dependent on probe type used
Accuracy ± 1 digit	± 0.03 hPa (0 to +3 hPa) $\pm 1.5\%$ of mv (+3.1 to +40 hPa) ± 2 hPa or $\pm 1\%$ of fsv (+41 to +200 hPa)	$\pm 0.5\%$ of fsv	± 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
Warranty	2 years Warranty conditions see internet page www.testo.com/warranty

Set testo 312-4

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 und 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

Accessories testo 312-4

Accessories for measuring instrument testo 312-4	Part no.
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
Recharger for 9V rechargeable battery	0554 0025
Desk-top power supply with international connection options	0554 1143
TopSafe (protection case)	0516 0446
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; for printing out measurements on site	0554 0549
Spare thermal paper for printer (6 rolls), permanent ink	0554 0568
testo 312 / testo 314 system case	0516 3121
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
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
Two-valve branch (brass); to connect 2 or more pipes, can be sealed separately	0554 3161
Single-valve stop to seal pipe; e.g. when changing hoses during a test	0554 3162
Test pump to produce test pressure	0554 3157
Leak detection spray for spraying on the gas pipe, shows leaking points where bubbles form	0554 3166
High-pressure probe up to 25 bar	0638 1743
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
Pipe wrap probe for pipes with diameter of up to 2", for flow/return temp. meas. in hydronic systems	0600 4593
Quick-action surface probe with sprung thermocouple strip; measuring range short-term to +500 °C	0604 0194
Connection cable, length 1.5 m, for probes with plug-in heads	0430 0143



1-800-517-8431

99 Washington Street
Melrose, MA 02176
Phone 781-665-1400
Toll Free 1-800-517-8431


[Visit us at www.TestEquipmentDepot.com](http://www.TestEquipmentDepot.com)