



Dräger P7-TDX Pressure, Leak and Leak Rate Measurement

The Dräger P7-TDX measures leak rates at top speeds – without removing the gas meter, without determining the volume and without pressure boosting. Gas and liquefied petroleum gas lines can be measured up to 0.3 mPa (3 bar), and this all-rounder even measures water and waste water lines and tests regulators.



Product advantages

Various applications

- Serviceability according to TRGI 2018
 - Leak testing with air on gas, liquefied petroleum gas and drinking water systems according to DVGW TRGI 2018, TRF 2012, bulletin ZVSHK
 - Leak testing for sewage pipelines per DIN 1610 and DIN 1986-30
 - Leak testing with arbitrary pressure ranges, setting time and test time
 - Load testing with air per DVGW TRGI 2018, TRF 2012, bulletin ZVSHK
 - Drinking water system testing with water per DIN EN 806 with external high pressure sensor
 - Regulator testing
 - Pressure and leak tests to 0.3 MPa (3 bar). Accuracy class 1 external high pressure sensors available for pressure and leak testing up to 2.5 MPa (25 bar).
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Serviceability testing according to DVGW TRGI 2018

The Dräger P7-TDX measures leak rates at top speeds – without removing the gas meter, without determining the volume and without pressure boosting. Merely connect the single hose connection to the gas fitting to start measuring. The auto-start option is an important tool for leaks in small systems with a rapid pressure drop.

Testing gas, liquefied petroleum gas and water pipelines

Versatile, quick and professional: In addition to the testing of gas and liquefied gas pipelines, the Dräger P7-TDX is also able to conduct measurements on water and wastewater pipelines, regulator checks as well as pressure measurements of up to 0.3 MPa (3 bar) with air. An external 25 bar (2.5 MPa) sensor is available for water testing.

Leak rate measurement also for large volume facilities

With the Dräger P7-TDX, you can also carry out a leak measurement on systems > 300 l.

Leak pre-test

If a serviceability test need not be carried out immediately and no official result is required, the Dräger P7-TDX can also carry out an abridged pre-test. Here, the leak volume is also determined.

Pressure monitor to track abnormal pressure flows.

Should exceptional pressure fluctuations occur in a system, you can monitor and measure these reliably over a longer time period with our Dräger P7-TDX. For this, all pressure fluctuations that exceed freely programmable limits are assessed and reported.

Up to 48 hour long-term measurement

The Dräger P7-TDX is equipped with a precision pressure measurement method including temperature and absolute pressure measurement that allows measurement times from 1 minute to 48 hours.

Bluetooth

The Dräger P7-TDX is equipped with Bluetooth LE as standard.

Shock and impact proof housing

The device features a shock and impact resistant housing which is reliable, even under challenging conditions.

Documentation

Measurements can be documented on site via IR printer or, if necessary, linked to customer or system data and the company logo and company address added via measurement report templates. The PC software with complete customer data management including import and export functions offers great user convenience.

Your office-on-the-go with the Dräger mCon app

The app ensures ultimate mobility and instant access to all current measurement data. All data is transmitted straight from the measuring device to a smartphone or tablet via Bluetooth. Measurement reports with the company logo and data are available as pdf files and can be sent by e-mail.



iOS



Android

Accessories



Pressure hose for burner, 1.0 m PVC hose
For measuring gas and flow pressure



High pressure gas distributor, max. 30 bar



High pressure hose, max. 30 bar



Low pressure hose, max. 0.5 bar

Accessories



Pump hose, max. 10 bar



1/2" adapter, max. 30 bar



Pump adapter 10 bar with automatic valve connection



Pressure sensor EP35 with automatic valve connection

Accessories

5600877



Pressure sensor EP250

5600842



Single tube meter cap

gerätekoffer-heavy-p7-pph-5600968



Device case Heavy P7 series

5600860



Manual pump

Accessories



MSI IR3 infrared printer

Instantly documents all values and results

Related product groups



Dräger P7-TD

The P7-TD is ideal for testing gas lines and drinking water pipelines up to 1 bar. With the optional external high pressure sensor, pressure measurements to 25 bar can be carried out. The Dräger P7-TD performs leak rate measurement at top speeds – without removing the gas meter, without determining the volume and without pressure boosting.

Technical Data

Certification	The serviceability test is certified according to DVGW G 5952. Registration number: DG-4805BS0029
Display	Colour display with touch screen
Interface	USB for PC connection, infrared for printer
Power supply	Battery: NiMH, 4.8 V / 2,000 mAh; power adapter: 12 V DC / 1 A
Operating temperature	+ 5°C... + 40°C
Storage temperature	- 20°C... + 50°C
Air pressure	800... 1,100 hPa
Humidity	10 - 90 % RH non-condensing
Dimensions	approx. 145 x 195 x 75 mm (w x h x d)
Weight	approx. 1000 g

Display	Measuring Range	Solution	Accuracy	Max. pressure overload
Micro-pressure	- 100 ... + 100 Pa	0.1 Pa	- 100 ... + 100 Pa: ± 2 Pa or 5 % of MV ¹	750 hPa
Fine pressure I	- 10 ... + 100 hPa	0.01 hPa	0 ... + 100 hPa: ± 0.5 hPa or 1 % of MV ¹	750 hPa
Fine pressure II	- 15 ... + 160 hPa	0.1 hPa	- 15 ... + 160 hPa ± 0.5 hPa or 5 % of MV ¹	750 hPa
Pressure	- 200 ... + 3,500 hPa	1 hPa	- 200 ... + 3,500 hPa 1 % of MR ²	5,000 hPa
Pressure (ext. Sensor, optional; air/gas)	- 100 ... + 3,500 hPa	1 hPa	- 100 ... + 3,500 hPa <1% of MR ²	4,000 hPa
High pressure (ext. Sensor, optional)	0 ... 2.5 MPa	0.001 MPa	0 ... + 25,000 hPa: 1 % of MR ²	35,000 hPa

¹ = Measurement value

Serviceability test*	Measuring Range	Solution
Leak rate	0 ... 10 l/h	0.01 L
Volume	1 ... 300 L	0.1 L
Gas types	Natural gas, air	

*DVGW-certified

Suitability Testing	Measuring Range	Solution
Leak rate	0 ... 10 l/h	0.01 L
Volume	1 ... 800 L	0.1 L
Gas types	Natural gas, air	

Order information

Accessories

MSI IR3 infrared printer	56 00 401
Printer paper, packing unit 5 rolls	56 90 151

Measurement packages

Dräger P7-TDX basic set	56 03 093
Dräger P7-TDX, Adapter, USB-cable, Bluetooth, 2 burner pressure hoses, low pressure hose, high pressure hose Pump adapter 10 bar, 1/2" adapter, manual pump, PC software*, case	
Dräger P7-TDX profi set	56 03 096
Dräger P7-TDX, Adapter, USB-cable, Bluetooth, 2 burner pressure hoses, low pressure hose, high pressure hose Pump adapter 10 bar, 1/2"-Adapter, pressure sensor 25 bar, manual pump, PC software*, case	

*Software available for download at www.draeger-msi.de.

HEADQUARTERS

Dräger MSI GmbH
Rohrstraße 32
58093 Hagen, Germany

www.draeger-msi.de

SUBSIDIARIES

NORTHERN REGION

Dräger Safety AG & Co. KGaA
Albert-Schweitzer-Ring 22
22045 Hamburg, Germany
Tel. +49 40 668 67-0
Fax +49 40 668 67-150
vertrieb.nord@draeger.com

EASTERN REGION

Dräger Safety AG & Co. KGaA
An der Harth 10 B
04416 Markkleeberg, Germany
Tel. +49 341 35 0 31-0
Fax +49 341 35 0 31-161
vertrieb.ost@draeger.com

SOUTHERN REGION

Dräger Safety AG & Co. KGaA
Vor dem Lauch 9
70567 Stuttgart, Germany
Tel. +49 711 721 99-0
Fax +49 711 721 99-50
vertrieb.sued@draeger.com

WESTERN REGION

Dräger Safety AG & Co. KGaA
Europark Fichtenhain B 5
47807 Krefeld, Germany
Tel. +49 2151 37 35-0
Fax +49 2151 37 35-35
vertrieb.west@draeger.com

SERVICE

NORTHERN REGION

Dräger Safety AG & Co. KGaA
Albert-Schweitzer-Ring 22
22045 Hamburg, Germany
Tel. +49 40 668 67-161
Fax +49 40 668 67-155
service.nord@draeger.com

EASTERN REGION

Dräger Safety AG & Co. KGaA
An der Harth 10 B
04416 Markkleeberg, Germany
Tel. +49 341 35 0 31-164
Fax +49 341 35 0 31-166
service.ost@draeger.com

SOUTHERN REGION

Dräger Safety AG & Co. KGaA
Vor dem Lauch 9
70567 Stuttgart, Germany
Tel. +49 711 721 99-43
Fax +49 711 721 99-51
service.sued@draeger.com

WESTERN REGION

Dräger Safety AG & Co. KGaA
Europark Fichtenhain B 5
47807 Krefeld, Germany
Tel. +49 2151 37 35-58
Fax +49 2151 37 35-50
service.westkr@draeger.com

SUBSIDIARIES

AUSTRIA

Dräger Safety Austria GmbH
Wallackgasse 8
1230 Vienna, Austria
Tel. +43 1 609 36 02
Fax +43 1 699 62 42
office.safety@draeger.com

SWITZERLAND

Dräger Schweiz AG
Waldeggstrasse 30
3097 Liebefeld, Switzerland
Tel. +41 58 748 74 74
Fax +41 58 748 74 01
info.ch@draeger.com

CORPORATE HEAD OFFICE

Drägerwerk AG & Co. KGaA
Moislinger Allee 53-55
23558 Lübeck, Germany

www.draeger.com