

MSI P7

Pressure and leak testing

The MSI P7 provides easy testing of pipes and tanks filled with gas or air. In addition to pressure and differential pressure measurements the MSI P7 allows the leak measurement within 10-15 minutes (volume independent).

The MSI P7 is approved according to German Technical and Scientific Association for Gas and Water (DVGW VP 952 / DG-4805BS0029).



Characteristics

- Exact measuring results by an automatic absolute pressure and temperature compensation
- Comparison leak method to determine the leak rate
- Simple menu navigation
- Easy and fast implementation of measurements
- Impact strength and shock resistance by tough housing
- Stored measurements including all measurement results can be documented via PC as DIN A4 test report. The graphic illustration of the measuring process including date and time can also be documented (administration of customer numbers inclusive)

Measurements

The MSI P7 allows following measurements:

- Serviceability test
- Leakage measurement
- Fully automatic leak test
- Load test
- Pressure and differential pressure

Applications

Serviceability test according to TRGI 2008 and VP 952 (German Technical and Scientific Association for Gas and Water)

The serviceability test is important to prove the correct function of existing gas pipes (leakage).

The MSI comparison leak method works independently of volume, temperature and absolute pressure.

Leak test according to TRGI 2008

If there has been an inspection at new or existing installations the start up only can be implemented if a leak test has done successfully with adequate documentation. The leak test is carried out automatically with the MSI P7.

Load test according to TRGI 2008

New or existing gas installations only may filled with gas if the load test has been carried out successfully.



MSI P7:
Characterized by high reliability.

TECHNICAL DATA

Approval	DVGW-certified (DG-4805BS0029)
Patent	Leak rate measurement: comparison leak rate method patent-number 10 2006 027 344.3
Display	LC display, graphic, backlit, manually adjustable
Interface	USB for PC interface, infrared for printer
Operating temperature	+ 5 °C up to + 40 °C
Storage temperature	- 20 °C up to + 50 °C
Power supply	Internal NiMH battery, 4.8 v 2,000 mAh, display indicates charge of battery, charger
Capacity of battery	More than 10 hours operating time
Weight	approx. 1,000 g
Dimensions	195 x 145 x 75 mm (H x W x D)
Humidity	10 % up to 90 % r.F. not condensing
Air pressure	800 hPa up to 1100 hPa

Display

Pressure test	Measuring range	Resolution	Measuring accuracy	Max. high pressure
Low pressure	- 100 ... + 100 Pa	0.1 Pa	< 5 % of MV* or < 1 Pa	750 mbar
Pressure I	- 10 ... + 100 mbar	0.01 mbar	< 3 % of MV* or < 0.5 mbar	750 mbar
Pressure II	- 15 ... + 160 mbar	0.1 mbar	< 5 % of MV* or < 0.5 mbar	750 mbar
Pressure (load test)	- 200 ... + 2,000 mbar	1 mbar	< 5 % of MV* or < 10 mbar	3,500 mbar

Serviceability test

Serviceability test	Measuring range	Resolution
Leak rate	0 up to 10 litres/h	0.01 litre/h
Volume	1 up to 300 litres	0.1 litre
Type of gas	Natural gas, propane, air	

*MV = Measuring Value

ORDER INFORMATION

See price list

Dräger

MSI Measurement · Safety · Information



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Further information to our partners and service-contacts are available at the homepage www.draeger-msi.de under „service“ and „contact“.

*Are you interested in pressure measurement?
Please take a look on our MSI P3 family for differential pressure measurements according to DVGW-TRGI 2008 (German Technical and Scientific Association for Gas and Water)*