

Dräger MSI P7plus Pressure and Leak Measurement



The Dräger MSI P7plus allows the checkup of pipelines and cases filled with gases or air. All checkups and measurements can be documented by printing or saving. The Dräger MSI P7plus is the ideal tool for the work at gas-, liquid gas- and water pipes. The Dräger MSI P7plus is DVGW approved.

Additionally to all functions of the MSI P7 the measuring device P7plus allows further functions as the checkup at liquid gas pipes, water pipes as well as the checkup of the control system and pressure measurement up to 5 bar. As usual you can also realize the safety check within 10-15 minutes (according to TRGI G 624 and VP 952, s. product information MSI P7).

the specified period of time after temperature equalization. The results can be displayed, printed or saved.

Checkup of water pipes (according to TRWI)

The leaking test of water pipes can be realized with water, air or inert gas. Because of the danger of germs (legionella) it is necessary to make the checkup before start-up. Therefore it is advisable to make the checkup of water pipes with air or inert gas.

Checkup of control systems

It is also possible to measure the static pressure, flow pressure and release pressure (safety shut-off valve and safety blow-off valve).

Leak testing at gas, liquid gas and water pipes (TRGI G 600, TRF, TRWI)

New installations or essential modified installations must be checked and documented by a leaktest. This can be realized fully automated with the help of Dräger MSI P7plus. It just requires the connection of a single flexible tube to the gas pipe. No need to begin to dismantle the meter or to connect a separate gas filled container, the volume of the system does not even need to be known. After a short stabilisation period for temperature equalisation, the measuring instrument instructs the user to close the main supply valve (just behind the gas meter). The measuring instrument detects the pressure in the gas pipe and opens an internal comparison leak automatically. The leak rate and the examined volume of the gas pipe is calculated from the measured pressure changes, with and without the comparison leak. The results are displayed in clear text and may be printed or saved with date and time. Saved values can be converted to a printed measurement report using a standard PC.

Leak testing of new gas installations (TRGI G 600, TRF, TRWI)

New gas installations must be checked. The pressure in the gas pipe must increase up to 1 (3) bar. The pressure in the gas pipe will be measured according to



Dräger MSI P7plus:
The plus for masterminds.

technical data

Pressure Measurements	Low pressure	Range	- 100 ... + 100 Pa
		Resolution	0,1 Pa
		Accuracy	< 5 % v MV* oder < 1 Pascal
	Pressure I	Range	10 ... + 100 mbar
		Resolution	0.01 mbar
		Accuracy	< 3 % v MV* or < 0.5 mbar
Pressure II	Range	- 15 ... + 150 mbar	
	Resolution	0,1 mbar	
	Accuracy	< 5 % v MV* or < 0.5 mbar	
Load test	High pressure	Range	- 200 ... + 5,000 mbar
		Resolution	1 mbar
		Accuracy	< 5 % v MV* or < 10 mbar
Leak test	Pump capacity	1.0 litre/min to 0.5 litre/min (pressure depending)	
	Test pressure	100.1 to 150.9 mbar	
	Resolution	0.1 mbar	
	Stabilisation period	2 to 30 min, depending on instructions	
	Measurement period	depending on instructions	
Safety check	Leak rate	Range	0 to 10 litre/h
		Resolution	0,01 litre/h
	Volume	Range	1 to 300 litre
		Resolution	0.1 litre
	Gas types	Natural gas, air	
General	Humidity	10 % bis 90 % r.F. not condensing	
	Barometric pressure	800 hPa to 1100 hPa	
	Operating temperature	+ 5 °C to + 40 °C	
	Storage temperature	- 20 °C to + 50 °C	
	Dimensions	145 x 195 x 75 mm (W x H x D)	
	Weight	ca. 1,000 g	
Approvals	TÜV approved, certified by German association of gas and water installation (DVGW)		

* Measuring Value

order information

Tightness measuring tool Dräger MSI P7plus	56 00 761
Probes, printer and additional accessories	see price list

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