



# T6961

## DIFFERENTIAL ENTRY-LEVEL LEAK TESTER REMOTED



### High speed for small volumes.

T6961 was designed for ultra fast testing of small parts (pneumatic valves, pressure switches, micro-valves in plastic for medical use, needles, catheters, biomedical components etc.). This characteristics makes it suitable for use on high production automatic machines, allow assembly of the pneumatic unit behind the part being tested, for maximum reduction of the parasite volume. The differential measurement technology also allows detection of extremely low leaks (example medicinal valves: 10 cc/h at 2 bar in 0.1 s. of testing).



Test time of a few tenths of a second



Remote pneumatic unit



Ideal for small pieces (maximum 20cc)

### All the connections you need.

T6961 has a more limited port supply than high-level range but is equally complete: a USB slave port, RS232, RS485 and CAN bus. The front panel has a master USB port for connection to a USB key to save the tests conducted, backup/restore parameters and upgrade tool firmware. The connection to thermal printers, barcode/data-matrix readers and markers takes place automatically using an internal menu.



USB key



High power outputs



RS232, RS485, Can

### Always better measurements.

With the external pneumatic module it will be possible to significantly reduce the volume under test, placing the pneumatic unit close to the part to be tested and therefore guaranteeing a cycle of tests with extremely reduced times. However, it is also available in a "stand alone" version with internal pneumatics. Thanks to the small dimensions of the instrument, the construction of multipoint counters is simplified. For a volume of 3 cc, it will only take 0.1 seconds to perform a tight and repeatable leak test, detecting a loss of 10 cc/h at 2 bar. It can be used in all those sectors

where there are small parts with reduced cycle times (valves for tires, pressure switches, micro-valves in medical plastic, needles, catheters, butterfly needles, biomedical components, etc.). The instrument is available in scales from 0.5 to 10 bar. Thanks to the new software and hardware features, the T6961 boasts a resolution of up to 0.1 Pa.



Differential technology



Centring technology in windows



Resolution of 0.1 Pa up to 10 bar

### Remote pneumatics.

T6961 avails of an external pneumatic unit with built-in micro-valves and differential pressure transducer, for assembly as close as possible to the part to test. It is entirely managed directly from the central unit with the dimensions and interface identical to the T6990.



Ideal for volumes up to 20cc



Remote external unit



No periodic maintenance

### Everything is where it should be.

Despite the compact dimensions which made use of more simplified menus necessary, the T6961 user interface was however designed to facilitate programming of the test parameters.

The front panel is made of a single sheet of tempered glass and aluminium, which makes it extremely easy to clean, making the T6961 suitable for use in the laboratory and on the production line.

The extensive internal menus are easy to understand and the graphic interface was designed to only display important information.

Everything is exactly where it should be.



User-friendly interface



Easy to clean



Use in sectors at 360°



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### Application Sectors

Automotive	Gas	Packaging
Household Appliances	Medical	

### Measurement Characteristics

Type		Range from -1 to 10 bar
Δp(Leak)	Accuracy	0.5% RDG+3DGT
	Resolution	From 0.001 mbar to 0.1 mbar
Direct Pressure	Accuracy	0.5% FS

### Features

- Resolution from 0.1 Pa
- Colour display
- USB pen drive for store results and test parameters
- Bluetooth Low Energy and WiFi interfaces on-board
- 99 Test Programs
- USB Type-B female connector for PC
- 6 Languages (English, Italian, French, German, Spanish, Portuguese)
- Mechanical Start/Stop button
- Firmware upgrade via USB pen
- Password protection
- 24V I/O (Start, Stop, Filling, Test, Good, Reject, 4BCD)
- Unit measure available: mbar, bar, psi, mmHg, mmH2O, Pa, hPa, cc/min, cc/h, pressure/s

### Technical Specifications

- Dimensions 180 x 160 x 200 mm
- Weight 5 Kg
- Electrical Supply 24VDC
- Air tube size: 4x2.7, 6x4, 8x6

### Test Modes

- Differential Leak Test

### Communication Interfaces

Interface Name	Standard	Protocol
RS232/RS485	Yes	ForTest, Modbus RTU, Trace EOT
USB-Serial	Yes	ForTest, Modbus RTU, Trace EOT

### Accessories

- Barcode reader
- Label printer
- Leak Test Manager PC software
- Air filter
- External Start/Stop push button