T8990

ABSOLUTE DECAY STANDARD LEVEL LEAK TESTER

A touch of innovation.

The T8990 leak tester was designed to improve what was considered the best device in ForTest's history, the M8990. The video controller "ForTest MMI" brought a superior level of human-machine interaction, thanks to an innovative capacitive panel in tempered glass, around a splendid 6.2" colour display.
Parameter programming is much faster thanks to the new numerical keyboard integrated in the menus, and the big display makes viewing even clearer of the test cycle.
The main screen also enables interaction with shortcut functions, such as test program change, "smart" test archive menu and locking/unlocking using a password.

6.2" colour display	Test graphic	Full area touch screen	Extended programming keyboard

Limitless connectivity.

T8990 equipment includes ports for the USB slave, RS232, RS485, Can bus, TTY, Profinet and EtherCAT. Assembly may also include an optional Ethernet port and a 26-pole connector with 4 inputs and 8 outputs, which are completely programmable, for interfacing with the external valves, safety barriers, switches, etc...
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, TTY , Profinet , EtherCAT	Ethernet and auxiliary connector

Always better measurements.

The test cycle was further accelerated thanks to processor and coprocessor interaction, maintaining the reliability that has always made ForTest unique.
We can say with certainty that T8990 avails of the most

advanced measurement section in the world, thanks to the centring technology in windows and the double Faraday optical-isolated cage, which reduces the settling times under 18 ms.
This gives a real measurement resolution of 0.1 Pa at 1 bar (0.5 Pa at 6 bar), stable and noise-free.

Built-in processor and coprocessor	Centring technology in windows	Resolution from 0.1 Pa

Optimised pneumatic section.

Assembly of the latest generation valves has enabled a 30% increase in the filling speed compared to the previous model, maintaining reliability unaltered over time. Our tools do not require expensive maintenance in the pneumatic department. Actually, our objective is to make them increasingly reliable and long-lasting.

Filling speed +30%	High strength against humidity	No periodic maintenance

Innovative design.

What appears to be a simple design exercise, in fact hides an in-depth study to make use and understanding of the equipment as simple as possible.
The front panel is made of a single sheet of tempered glass and aluminium, which makes it extremely easy to clean, making the T8990 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

Aerospace	Valves	Packaging
Automotive	Brakes	Gas
Household Appliances	Refrigeration	Heating
Electronics	Mechanical	Hydraulics
Foundry	Medical	Energy
Pneumatics	Oleodynamic	Cylinders

Measurement Caracteristics

Type		Range from -1 to 50 bar
Δp(Leak)	Accuracy	0.5% RDS+3DGT
	Resolution	From 0.001 mbar to 0.1 mbar
Direct Pressure	Accuracy	0.5% FS

Optional

- Electronic regulator
- AUX I/O 24VDC with 8 output programmable, 4 input programmable, 4BCD
- Communication interfaces
- Pneumatic fast filling
- Pre-filling
- Volume measurement

Features

- Resolution from 0.1 Pa
- HMI touchscreen controller
- Colour display
- USB pen drive for store results and test parameters
- Bluetooth Low Energy and WiFi interfaces on-board
- Real Time Graph of pressure and decay
- 300 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, mmH20, Pa, HPa, cc/min, cc/h, pressure/s
- Frontal connector for Staubli calibrated leak

Technical Specifications

- Dimensions 270 × 160 × 300 mm
- Weight 8 Kg
- Electrical Supply 24VDC, 110 VAC, 230 VAC
- Air tube size: 4×2.7, 6×4, 8×6, 10×8

Test Modes

- Leak Test
- Obstruction

Communication Interfaces

Interface Name	Standard	Protocol
RS232/RS485	Yes	ForTest, Modbus RTU, Trace EOT
USB-Serial	Yes	ForTest, Modbus RTU, Trace EOT
Ethernet TCP/IP	Optional	ForTest, Modbus RTU, Trace EOT
Profinet	Optional	Profinet ©
EtherCAT	Optional	EtherCAT ©
EtheNet/IP	Optional	CIP ™

Accessories

- Barcode reader
- Label printer
- Leak Test Manager PC software
- Air filter
- Electrovalve group "cylinder's" type with filter
- External Start/Stop push button