T8990

ABSOLUTE DECAY UNIVERSAL LEAK TESTER.

FORTEST

A touch of innovation.

The new T8990 leak tester was designed to improve what was considered the best device in ForTest's history, the M8990.
The new 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.

The new T8990 equipment includes ports for the USB slave, RS232, RS485, Can bus and TTY. 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 assembled on it 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	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 solenoid 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 tool 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°

T8990

Absolute decay
universal leak tester.

Model	0-1 bar	1-2 bar	2-6 bar	6-10 bar	10-20 bar	20-50 bar
Dp / flow accuracy	0,5% RDG+3DGT	0,5% RDG+3DGT	0,5% RDG+3DGT	0,5% RDG+3DGT	0,5% RDG+3DGT	0,5% RDG+3DGT
Dp / flow measurement range	0-65 mbar	0-65 mbar	0-65 mbar	0-65 mbar	0-65 mbar	0-65 mbar
Dp / flow resolution	0,001 mbar	0,002 mbar	0,005 mbar	0,01 mbar	0,1 mbar	0,1 mbar
Filling pressure accuracy	0,5%FS	0,5%FS	0,5%FS	0,5%FS	0,5%FS	0,5%FS
Filling pressure measurement range	0-FS	0-FS	0-FS	0-FS	0-FS	0-FS
Filling pressure resolution	0,1 mbar	0,1 mbar	0,1 mbar	1 mbar	1 mbar	10 mbar
Leak measurement accuracy in cc/'	1%RDG+0,03cc/min	1%RDG+0,03cc/min	1%RDG+0,03cc/min	1%RDG+0,03cc/min	1%RDG+0,03cc/min	1%RDG+0,03cc/min
Leak measurement range in cc/'	0-10 cc/min	0-10 cc/min	0-10 cc/min	0-10 cc/min	0-10 cc/min	0-10 cc/min
Leak measurement resolution in cc/'	0,01 cc/min	0,01 cc/min	0,01 cc/min	0,01 cc/min	0,01 cc/min	0,01 cc/min
Volume measurement accuracy in cc/'	1%RDG+2cc/min	1%RDG+2cc/min	1%RDG+2cc/min	1%RDG+2cc/min	-	-
Volume measurement range in cc/'	0-500 cc	0-500 cc	0-500 cc	0-500 cc	-	-
Volume measurement resolution in cc/'	0,1 cc/min	0,1 cc/min	0,1 cc/min	0,1 cc/min	-	-
Unit of measurement	mbar, bar, psi, mmHg, mmH2O, Pa, HPa, cc/min, cc/h, pressure/s.					
Dimensions	270X160X300 mm					
Weight	8 kg					
Display dimensions	800x280 pixel					
Working temperature range	5-40 °C					
Port RS232	2					
Port RS485	1					
"Master" USB port	1					
"Slave" USB port	1					
Ethernet port	Optional					
I/O signals	Start, Stop, Filling, Test, Good, Reject, 4BCD					
Auxiliary I/O signals (optional)	8 output programmable, 4 input programmable, 4BCD					
New programs	300					
Test archive memory	Avanced					
Lock with password	Yes					
Program name	Yes, 16 characters					
Reference norms	EN 61010-1, EN61326-1 / EN61326/A1, EN61000-3-2 / EN61000-3-2/A14, EN61000-3-3 / EN61000-3-3/A1, EN61000-4-2 / EN61000-4-2/A1, EN61000-4-3 / EN61000-4-3/A1 / EN61000-4-3/A2, EN61000-4-4, EN61000-4-5, EN61000-4-11, EN1779					

T8990

ABSOLUTE DECAY
STANDARD-LEVEL LEAK
TESTER

ACCESSORIES

- External exhaust solenoid with protection filter
- 3 way pneumatic valve
- Pilotage solenoid
- 5 way Pneumatic valve
- External start button
- External start/abort pushbutton
- External pushbutton 4 programs selection
- Start pedal
- Barcode reader
- Adhesive label for printer 4500pcs
- Aux signals extension cable
- Venturi Vacuum generator
- Air filter
- Staubli male connector
- Precision micrometer nozzle
- Micrometer nozzle

- M series manager software
- TTY
- Serial protocol
- Electrovalve group "cylinder's" type with filter
- PC serial cable owner ---> M Series
- External temperature probe
- 3-way pneumatic valve with pilot valve
- MIXER-07
- Software Data Manager
- Staubli female fitting
- Thermal printer with peel-off
- Thermal printer without peel
- Adapter cable AUX M Series ---> ET Series
- Remote Start / Abort / Good / Reject
- Air filter 5 micron

OPTIONALS

- Interior exhaust valve
- Pneumatic filling fast
- Pneumatics with micro electro valves
- Kit sniffer Hydrogen H2
- Frontal connector for Staubli calibrated leak
- Frontal precision pressure regulator
- Electronic pressure Regulator
- Auto zero primary pressure circuit
- Positive test and negative test
- Pre-Filling
- Waiting Primary pressure reading

- Secondary Output of Waste (third result)
- Leak Analog Output
- I/O 24 Vdc expansion signal card
- Bi-manual logic Start Input
- Ethernet plug/TCP-IP
- Active USB port
- WI-FI connection
- Radio remote control selection Kit
- High resolution measure - (STANDARD)
- Capacitance meter for piece volume measure
- Double branches of pre-regulated pressures