T8960

DIFFERENTIAL STANDARD-LEVEL LEAK TESTER

A touch of innovation

The new T8960 leak tester was designed to improve what was considered the best device in ForTest 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 faster thanks to the new numerical keyboard integrated in the menu, and the big display makes clearer the view 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 T8960 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 AUX connectors*

Always better measurements.

By nature, differential technology enables a measurement sensitivity even better than absolute decay, guaranteeing a decay resolution of 0.1 Pa up to 6 bar testing.
The implementation of new pressure sensors, combined with the measurement section with centering technology in windows and double Faraday optical-isolated cage made possible a further improvement of the tool performance.

Differential technology | *Centering technology in windows* | *Resolution of 0.1 Pa up to 6 bar*

Optimised pneumatic section

Assembly of the latest generation solenoid valves enabled a 50% 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 +50% faster | *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 aluminum, which makes it extremely easy to clean, making the T8960 suitable for use in the laboratory and on the production line.
The extensive internal menu are easy to understand and the graphic interface was designed only to display important information.

User-friendly interface | *Easy to clean* | *Use in sector 360°*

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Model	0-0,2 bar	0-0,5 bar	0-1 bar	0-2 bar	0-3 bar
Accuracy Dp	0,5% RDG+3DGT	0,5% RDG+3DGT	0,5% RDG+3DGT	0,5% RDG+3DGT	0,5% RDG+3DGT
Range of measure Dp	0-65 mbar	0-65 mbar	0-65 mbar	0-65 mbar	0-65 mbar
Resolution Dp	0,001 mbar	0,001 mbar	0,001 mbar	0,001 mbar	0,001 mbar
Direct pressure accuracy	1%FS	1%FS	1%FS	1%FS	1%FS
Direct pressure measurament range	0-FS	0-FS	0-FS	0-FS	0-FS
Direct pressure relief	0,01 mbar	0,01 mbar	0,1 mbar	0,1 mbar	0,1 mbar
Accuracy measure loss in cc/'	1%RDG+0,01cc/min	1%RDG+0,01cc/min	1%RDG+0,03cc/min	1%RDG+0,03cc/min	1%RDG+0,03cc/min
Measurement range in cc/'	0-10 cc/min	0-10 cc/min	0-10 cc/min	0-10 cc/min	0-10 cc/min
Measured measurement reslution in cc/'	0,01 cc/min	0,01 cc/min	0,01 cc/min	0,01 cc/min	0,01 cc/min
Accuracy measure volume in cc	1%RDG+2cc/min	1%RDG+2cc/min	1%RDG+2cc/min	1%RDG+2cc/min	1%RDG+2cc/min
Volume range in cc	0-500 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	0,1 cc/min
Measure unit	mbar, bar, psi, mmHg, mmH2O, Pa, HPa, cc/min, cc/h, pressure/s.				
Dimensions	L:270 H:160 l:300 mm				
Weight	8 kg				
Display size	800x280 pixel				
Operating temperature range	5-40 °C				
RS232 Ports	2				
RS485 Ports	1				
USB "master" ports	1				
USB "slave" ports	1				
Ethernet port	Optional				
I/O Signals	Start, Stop, Filling, Test, Good, Reject, 4BCD				
I/O AUX Signals (optional)	8 output programmable, 4 input programmable, 4BCD				
Number of programs	300				
Test archive memory	Advanced				
Password block	Yes				
Program name	Yes, 16 characters				
Reference normatives	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				

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ACCESSORIES

- External exhaust solenoid with protection filter
- 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
- Gruppo External temperature probe
- MIXER-07
- Software Data Manager
- Staubli female fitting
- MIXER-07
- Software Data Manager
- Thermal printer with peel-off
- Thermal printer without peel
- Adapter cable AUX M Series ---> ET Series
- Air filter 5 micron
- Remote Start / Abort / Good / Reject

OPTIONALS

- Pneumatics with micro electro valves
- Frontal connector for Staubli calibrated leak
- Frontal precision pressure regulator - (**STANDARD**)
- Pneumatic module of remote measurements
- Electronic pressure Regulator
- Auto zero primary pressure circuit - (**STANDARD**)
- Pre-Filling
- Waiting Primary pressure reading
- Secondary Output of Waste (third result)
- Barometric measurement
- Leak Analog Output
- I/O 24 Vdc expansion signal card
- Bi-manual logic Start Input
- Ethernet plug/TCP-IP
- Active USB port - (**STANDARD**)
- WI-FI connection
- Radio remote control selection Kit
- High resolution measure - (**STANDARD**)
- Capacitance meter for piece volume measure
- Double branches of pre-regulated pressures

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