

T9730



CONTINUOUS MEASUREMENT HIGH PERFORMANCE FLOW TESTER



Flow measurement with “Coriolis” sensor

Thanks to use of technology based on the “Coriolis” effect, T9730 is among the leaders of flow leak testing in terms of precision and linearity of the measurement.

This particular technology was designed to guarantee high performance, short response time and high level of immunity to noise, and is exclusive to the ForTest T9000 series.

Other than the classic flow measurement, the tool also has other ways of making it as versatile as possible in its category: ascent and descent ramps, opening tests and burst testing.

Another separate function is the “continuous measurement”, i.e. a test with infinite times allowing adjustment of the taps and part repairs in real time.

The tool also avails of an intelligent pressure adjustment, which uses the automatic pressure regulator to continuously adjust the test pressure based on the variation in load loss, to ensure the reading is as stable and repetitive as possible.



High performance
“Coriolis” sensor



Multiple operating
modes



Intelligent pressure
adjustment

Advanced interface.

For us, the T9000 series is the most technologically forward of measurement systems, equipped with an advanced interface, useful for analysis and research during the prototyping or pre-series phase, as well as for production line testing.

The big, 7” colour display set in a capacitive glass panel allows total interaction with the internal menus and the main screen.

The “smart” testing archive contains daily and monthly analysis functions and those specifically for each test program, to keep the level of quality of your products under control.



Display 7”
full-touch



Advanced analysis
capacity



“Smart”
testing archive

Limitless connectivity.

The new T9730 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

Top category technology.

We decided not to make compromises when equipping the T9730, assembling the best components currently on the market, such as the piezoelectric electronic regulator which guarantees stable and repetitive adjustment, or the solid-state sensor with a vast reading range, or the specific valves for this model, with a life estimated in tens of millions of cycles.

All these advantages give never before seen precision performance, stability and accuracy.

Measurement resolution starts with 0.1 cc/min based at the bottom of the scale, varying from 1,000 to 20,000 cc/min, with maximum pressure of 2 bar.



Automatic pressure
regulator



Measurement up to
20,000 cc/min



Resolution starting from
0.1 cc/min

Made to measure pneumatic section.

To avoid overheating due to long activation times of the filling circuit, we have designed particular, high capacity pneumatic valves, which not only work in hot temperatures, but also quickly fill the piece being tested, making the T9730 also suitable for testing on parts with significant volumes.

All of the above, while maintaining ForTest’s historic reliability.



Heat-proof pneumatic
valves



High filling speed



No periodic maintenance

CONTINUOUS MEASUREMENT HIGH PERFORMANCE FLOW TESTER

Model	0-0,5 bar	0,5-6 bar	0-200 cc/min	0-5000 cc/min	0-10000 cc/min	0-20000 cc/min	0-100000 cc/min	0-200000 cc/min
Dp / flow accuracy	-	-	1% RDG+0,1%FS	1% RDG+0,1%FS	1% RDG+0,1%FS	1% RDG+0,1%FS	1% RDG+0,5%FS	1% RDG+0,5%FS
Dp / flow measurement range	-	-	0-FS	0-FS	0-FS	0-FS	0-FS	0-FS
Dp / flow resolution	-	-	0,01 cc/min	1 cc/min	1 cc/min	1 cc/min	100 cc/min	500 cc/min
Filling pressure accuracy	0,5%FS	0,5%FS	-	-	-	-	-	-
Filling pressure measurement range	0-FS	0-FS	-	-	-	-	-	-
Filling pressure resolution	0,01 mbar	0,1 mbar	-	-	-	-	-	-
Leak measurement accuracy in cc/''	-	-	-	-	-	-	-	-
Leak measurement range in cc/''	-	-	-	-	-	-	-	-
Leak measurement resolution in cc/''	-	-	-	-	-	-	-	-
Volume measurement accuracy in cc/''	-	-	-	-	-	-	-	-
Volume measurement range in cc/''	-	-	-	-	-	-	-	-
Volume measurement resolution in cc/''	-	-	-	-	-	-	-	-
Unit of measurement	mbar, bar, psi, mmHg, mmH2O, Pa, HPa, cc/min, cc/h, l/h, l/min.							
Dimensions	300x160x350 mm							
Weight	10 kg							
Display dimensions	800x480 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							

†: can change according to the scale of the Pressure

T9730



CONTINUOUS MEASUREMENT HIGH PERFORMANCE FLOW TESTER

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
- Air filter
- Staubli male connector
- Precision micrometer nozzle
- Micrometer nozzle
- M series manager software

- TTY
- Serial protocol
- PC serial cable owner ---> M Series
- External temperature probe
- MIXER-07
- Software Data Manager
- Thermal printer with peel-off
- Thermal printer without peel
- Adapter cable AUX M Series ---> ET Series
- Remote Start / Abort / Good / Reject
- Software "Data Manager"
- Air filter 5 micron

OPTIONALS

- Pneumatic filling fast - (STANDARD)
- Frontal connector for Staubli calibrated leak
- Frontal precision pressure regulator
- Electronic pressure Regulator
- Auto zero primary pressure circuit
- 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)
- Indirect measure