

ERD520

Valves tester



- NEW COMPACT FORMAT
- OPTIMISED MEASUREMENT
- HIGH SPECIFICATIONS - COMPETITIVELY PRICED
- EASY SET-UP

5 SERIES

With an ERD you have several instrument in one. It's an instrument designed to test components for which a response is expected at a given pressure.

The instrument applies a gradually increasing pressure to the test part, until the expected event occurs, producing an electrical contact closure.

It checks that the pressure is within the specified limits and releases the pressure.

Its design allows it to be used for on-line testing of production parts.

It's also a flow tester.



Main Features

- Regulate up to 16 different pressures.
- Programmable rates or rise and fall.
- Adjustable reject levels
- **Serial links:** RS232: printer, P.C. et parameter storage module.
- 16 programs
- 7 inputs / 5 outputs
- Time and date display, choice of languages and units, customisation of tests for your requirements, automatic measurement cycle...



Applications

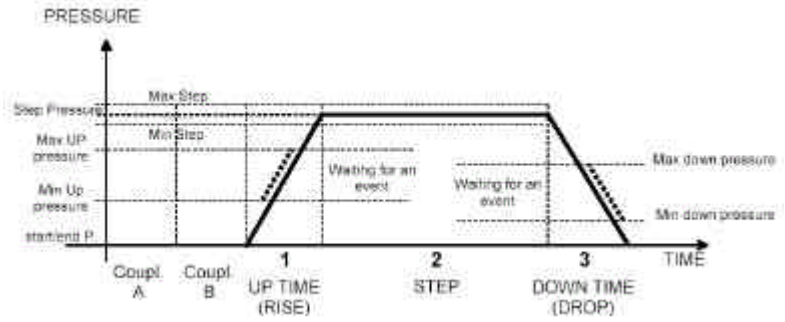
Relief valves, pressure switches, check valves, safety blocks...



Principle of measurement

The test takes place in three distinct phases:

- 1) The rise (Pressure UP) time: allows the gradual pressurisation of the test part. An event control can be carried out during the pressure rise (from start pressure to step pressure).
- 2) The step time: allows the measurement of flow with a constant pressure.
- 3) The drop (Pressure DOWN) time: progressively returns the test part to atmospheric pressure. An event control can be carried out during the pressure fall.



Measurement ranges

FLOW MEASUREMENT		
RANGE	ACCURACY	MAXIMUM RESOLUTION
1 l/h	$\pm (2.5\% D + 0.001 \text{ l/h})$	$\geq 1\%$ of full scale
5 l/h	$\pm (2.5\% D + 0.005 \text{ l/h})$	$\geq 1\%$ of full scale
30 l/h	$\pm (2.5\% D + 0.030 \text{ l/h})$	$\geq 1\%$ of full scale
80 l/h	$\pm (2.5\% D + 0.080 \text{ l/h})$	$\geq 1\%$ of full scale
150 l/h	$\pm (2.5\% D + 0.150 \text{ l/h})$	$\geq 1\%$ of full scale
500 l/h	$\pm (2.5\% D + 0.5 \text{ l/h})$	$\geq 1\%$ of full scale
1 500 l/h	$\pm (2.5\% D + 1.5 \text{ l/h})$	$\geq 1\%$ of full scale
4 000 l/h	$\pm (2.5\% D + 4 \text{ l/h})$	$\geq 1\%$ of full scale
10 000 l/h	$\pm (2.5\% D + 10 \text{ l/h})$	$\geq 1\%$ of full scale

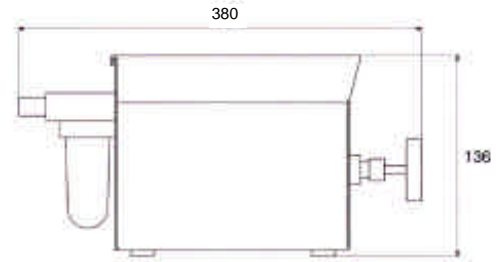
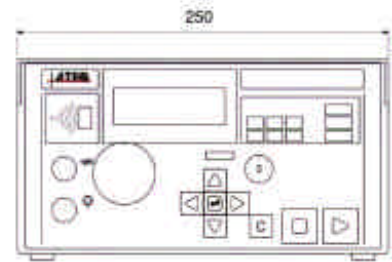
D = Flow

PRESSURE MEASUREMENT		
RANGE	ACCURACY	MAXIMUM RESOLUTION
FS = 75 mbar	$\pm (1,5\% \text{ of } P + 0.2 \text{ hPa})$	0,1% of full scale
FS < 0.3 bar	$\pm (1,5\% \text{ of } P + 1 \text{ hPa})$	0,1% of full scale
$0.3 \leq FS \leq 1 \text{ bar}$	$\pm (1,5\% \text{ of } P + 3 \text{ hPa})$	0,1% of full scale
$1 \leq FS \leq 5 \text{ bar}$	$\pm (1,5\% \text{ of } P + 7.5 \text{ hPa})$	0,1% of full scale

* Relative
FS = Full Scale
P = Pressure

MECHANICAL PRESSURE REGULATOR

-20 - 80 kPa / 0.8 - 6 kPa / 0.5 - 14 kPa /
10 - 200 kPa / 40 - 400 kPa / 80 - 600 kPa



Technical specifications

- **Physical**
Weight: approximately 4 kg
- **Interface**
Navigation keys
4-line LCD display
Results indicator lights
- **External electrical supply**
Voltage: 24 V DC / 2 A
Main adaptater included (110 - 240 V AC)
- **Air supply**
Clean and dry air required
Air quality standard to be applied (ISO 8573-1)
- **Temperature**
Operating : + 10°C to + 45°C
Storage : 0°C to + 60°C

Accessories

- Start/Reset remote control
- Printer
- Parameter storage modules
- Needle valve
- Master jet
- Filtration kit
- Sealing connectors
- Please refer to ATEQ accessories list

Specifications subject to change without notice



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