

# F520

## Compact leak detector for production testing



- ✓ **NEW COMPACT FORMAT**  
(1/2 19")
- ✓ **OPTIMISED MEASUREMENT**
- ✓ **EASY SET-UP**
- ✓ **HIGH SPECIFICATIONS -  
COMPETITIVELY PRICED**

### 5 SERIES

*Without any doubt the  
smallest high-performance  
leak detector on the market.*

*Specially adapted for  
automatic or semi-automatic  
test machines, the F520 has  
a full range of specifications  
at a very competitive price.*



#### Main Features

- Differential pressure decay leak measurement
- Ranges of leak measurement ( $\Delta P$ )  
Full scale: 50 Pa - 500 Pa - 5000 Pa
- Test modes:
  - $\Delta P$
  - $\Delta P / \Delta t$
  - Flow units
  - Blockage test
  - and others, depending on your applications
- New, faster system to fill parts
- Manual calibration on front panel with calibrated leak
- 32 programs
- **Serial links:**  
**RS232:** printer, bar code reader, P.C. and parameter storage module  
**RS232:** intelligent remote control  
**RS485:** ATEQ network
- 7 inputs / 5 outputs
- Time and date display, choice of languages and units, customisation of tests for your requirements, automatic measurement cycle...



#### Applications



**Automotive:** shock absorbers, gearboxes, tank caps, carburettors, non return valves, cylinder heads, filters, radiators, seals, cylinders, engine oil and water circuits...

**Domestic appliances:** bottles, percolators, cookers, steam irons, ovens, washing machines...

**Medical:** catheters, dialysis equipment, micropipettes, plastic taps, drain bags, syringes, valves...

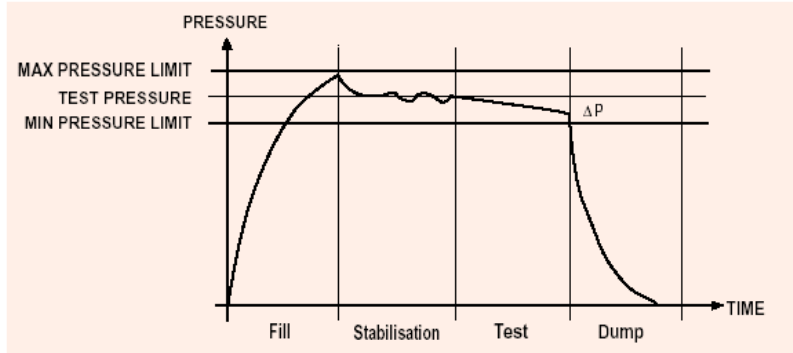
**Packaging:** aerosol cans and valves, trigger pumps, ink cartridges, cosmetic bottles, food sachets...

#### Options

- Electronic regulator
- Dual pressure
- High speed valve
- 2 pneumatic outputs for control of sealing connectors
- 6 x 24 V programmable outputs for external connection
- 2 analogue outputs:  
0 - 10 V or 4 - 20 mA
- Automatic calibration check
- Temperature compensation

**ATEQ**  
www.ateq.com

## Principle of Measurement



## Measurement Ranges

### TEST PRESSURE MEASUREMENT

RANGE	ACCURACY
P. E. = 75 mbar	$\pm(1.5\% \text{ of the pressure} + 0,2 \text{ hPa})$
P. E. < 0,3 bar	$\pm (1.5\% \text{ of the pressure} + 1 \text{ hPa})$
$0,3 \leq \text{P. E.} \leq 1 \text{ bar}$	$\pm (1.5\% \text{ of the pressure} + 3 \text{ hPa})$
$1 < \text{P. E.} \leq 5 \text{ bar}$	$\pm (1.5\% \text{ of the pressure} + 7.5 \text{ hPa})$
$5 < \text{P. E.} \leq 10 \text{ bar}$	$\pm (1.5\% \text{ of the pressure} + 15 \text{ hPa})$
$10 < \text{P. E.} \leq 20 \text{ bar}$	$\pm (1.5\% \text{ of the pressure} + 30 \text{ hPa})$

### PRESSURE DROP MEASUREMENT

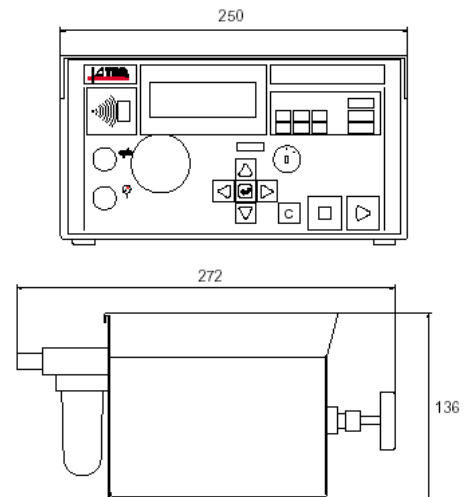
RANGE	ACCURACY
0 – 50 Pa	$\pm (2\% \text{ of the pressure} + 0.5 \text{ Pa})$
0 – 500 Pa	$\pm (2.5\% \text{ of the pressure} + 1 \text{ Pa})$
0 – 5000 Pa	$\pm (2.5\% \text{ of the pressure} + 10 \text{ Pa})$

### MECHANICAL PRESSURE REGULATION

Vacuum / 5 - 50 kPa / 20 - 400 kPa / 50 - 900 kPa

### ELECTRONIC PRESSURE REGULATION

Vacuum / 1 - 10 kPa / 5 - 50 kPa / 20 - 200 kPa / 50 - 500 kPa /  
100 - 1 000 kPa / 100 - 1 600 kPa / 100 - 2 000 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 / 1.6 A  
Mains adapter included (110 - 240 V AC)
- **Air supply**  
Clean and dry air required  
Air quality standard to be applied (ISO 8573-1)
- **Temperature**  
Operating : 0°C to + 45°C  
Storage : 0°C to + 60°C

### Accessories

Start/Reset remote control  
Intelligent remote control  
RC5  
Printer  
Infrared switch  
Parameter storage module  
ATEQ software  
(Winatq - S5demo)  
Needle valve  
Calibrated leak  
Filtration kit  
Vacuum pump  
Sealing connectors  
*Please refer to ATEQ  
accessories list*



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