



ATEQ D

Programmable Gas Flowmeter for Production Line



- Reliability
- Precision
- Automation
- Faster
- 2 years warranty

HERE is your solution for flow measurement and leak testing on production line : the **ATEQ D**.

This equipment solves your problems of flow measurement from the simplest to the most complicated ones.

ATEQ's experience combined with the flexibility meets the needs of a **large range of applications** from gas industries to medical industries.

More than 2,000 customers around the world have already adopted the **ATEQ D** for its **reliability, robust build and user friendliness**.

Like them, choose the real leader in the flowmeter market to carry out your tests. ■

Main Features

- 64 programs with possibility of different calibration.
- Numerical display of flow and pressure.
- Checking and compensation of the variations of pressure.
- Mesure of flow in continuous mode (automatic) and cycle mode (manual).
- Standard of measure units : cm³.atm/min, L.atm/min, L.atm/h, CFH, GPH, GPM...
- Leak detection available.
- Programmable reject levels.
- Interfacing through input - output.
- Bi-directional RS232.

Applications

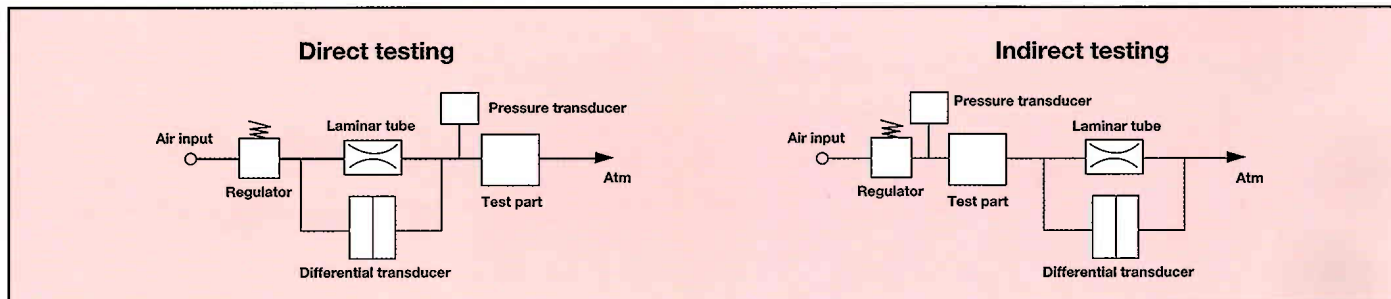


- **Flow control** : cookers, ovens, valves, gas taps, gas burners, lighters...
- **Leak detection** : valve seats, gear boxes, hydraulic components, motors...
- **Control** of aerosols, injectors...



Operating principle

ATEQ D is an air or gas flow meter whose principle is to measure a differential pressure using a differential transducer at the terminals of a calibrated laminar flow element. If a fluid (gas) flows through a laminar flow element, a pressure drop takes place. This pressure drop is referred to as a loss of pressure and its value is proportional to the flow. Two measurement principles are applied : direct or indirect measurement. ■



Specifications

■ Transducers

Differential pressure transducer (Mfd. ATEQ) :
equipped with auto-compensation of zero-drift and over pressure protection.

Full scale : 100.0 Pa (1 mbar ~ 0.015 PSI)

Resolution : 0.5% of the full scale

Linearity : < 1% of the full scale

Relative (silicium) pressure transducer :

equipped with auto-compensation of zero-drift.

Full scale :

0 ~ -90 kPa (0 ~ -900 mbar/0 ~ -13.04 PSI) vacuum

0 ~ 15 kPa (0 ~ 150 mbar/0 ~ 2.17 PSI)

0 ~ 50 kPa (0 ~ 500 mbar/0 ~ 7.25 PSI)

0 ~ 400 kPa (0 ~ 4 bar/0 ~ 60 PSI)

Resolution : 0.25% of the full scale

Linearity : < 0.5% of the full scale

■ Pneumatic

Pneumatic module :

Proprietary spool valves with pressurised "O" rings, pneumatic control and spring return.

Time life over 5.000.000 cycles minimum.

Pneumatic connections :

4 x 6 mm air input.

4 x 6 mm or 8 x 10 mm or more output.

Air supply :

Between 400 and 800 kPa (4 ~ 8 bar / 60 ~ 116 PSI) and at least 100 kPa (1 bar / 14.5 PSI) above test pressure.

Air supply must be clean and dry.

A 5 microns filters is supplied in standard

Air quality standard (ISO 8573-1)

Granulometry and concentration : Class 1 (0.1 µm and 0.1 mg/m³)

Dew point under pressure : Class 2 (-40° C of dew)

Maximum oil concentration : Class 1 (0.01 mg/m³).

■ Presentation

Dimensions (with a retractable base) :

Rack 19" 3U ~ h x w x d = 172 x 528.5 x 292 mm

Weight : about 10 kg.

■ Range of measure

30 L.atm/h ; 80 L.atm/h ; 500 L.atm/h

1500 L.atm/h ; 4000 L.atm/h ; 10000 L.atm/h.

■ Power supply

Voltage : 90 V to 260 V

Single phase : 50/60 Hz - 40 VA

The instrument must be connected to a high quality ground socket.

■ Electronic

Microprocessor 80C32. 20 MHz Intel.

■ Interfaces

Output RS 232 / RS 485 or a 9 pin connectors

Option : remote control through interface, relay, or automate PLC.

CPU and relay boards inputs :

Octocouplers (3750 V RMS)

Activated by dry contact (24 V / 20 mA)

CPU boards outputs :

24 V open collector

Maximum resistive load : 5 W

Relay board discrete in and output :

Dry contact

Rating 24 W max / 400 mA max.

ATEQ reserves the right to amend specifications without notice



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