

Micro-Flow Sensors

MODEL: IF2-HF

Product Applications

- **High Flow** measurements 25 to 10,000 LPM
- Constriction/Blockage testing
- Precision Transfer Standard to calibrate other flow meters
- Measurement of gas mixtures, hydrogen and natural gas options
- Pressure range from barometric to 100 psig

Product Features

- Intelligent Gas Flow Sensor (IGFS)
- Measures volume flow, pressure and temperature
- Optional compensation for various gas properties, temperature and viscosity
- Dual range calibration, automatic range switching
- Automatic pressure set and control option (constriction/blockage test)
- Stainless steel rugged construction
- No moving parts
- Not overflow sensitive
- Max. pressure differential: Up to 100 psid



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FLOW RANGE

0-50; 0-100; 0-300;0-500;0-1000;0-5000;0-10,000 LPM (L/min)
Sensor type: Laminar Flow Type, multiple designs.

Leak Flow Measurement Uncertainty: +/- 1% (0.6% optional) of volumetric flow, calibrated range

PRESSURE RANGE

From Barometric pressure to 15; 30; 100 (psi-absolute)
Type: Absolute, micro-machined sensor
Measurement uncertainty: 0.2% of Full Scale (FS)
Maximum over pressure: 1.2 times full range/scale

Burst Pressure: 1000 psia

RESOLUTION

16 bits A/D and 16 bits D/A

MAX DIFFERENTIAL PRESSURE

100 psid (differential pressure) or maximum range of pressure sensor, whichever is smaller.

GASES USED

Dry non-condensing clean air.
Other gases (Nitrogen, Hydrogen, Natural Gas, Carbon Dioxide, moisturized air available, consult ATC)

RESPONSE TIME

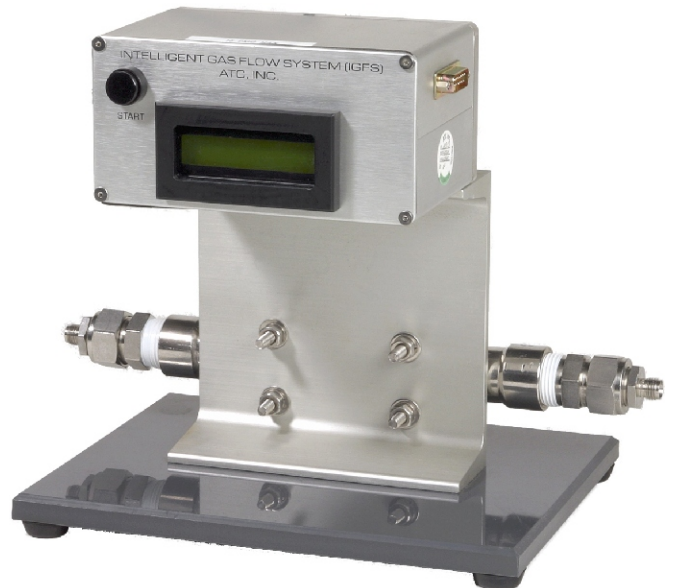
Step function from no flow to full range: 50 ms or less (open outlet, dependent on sensor range).

TEMPERATURE RANGE

Operating and calibrated range: 10 to 45 °C (other ranges available, consult ATC)
Storage: -25 to 50 °C
Sensor type: RTD 100 Ohms
Measurement uncertainty at calibrated range: 0.5 °C

INTERFACE

Serial port
Digital I/O: Start/stop, pass/fail and more...
Programmable Analog Output
Power: 115 VAC or 220 VAC (power supply and connector included)
Optional: 2-line character display



The COMPLETE Solution For Your Most Challenging Automatic Leak Flow Testing