Micro-Flow Sensors

MODEL: IL2-M

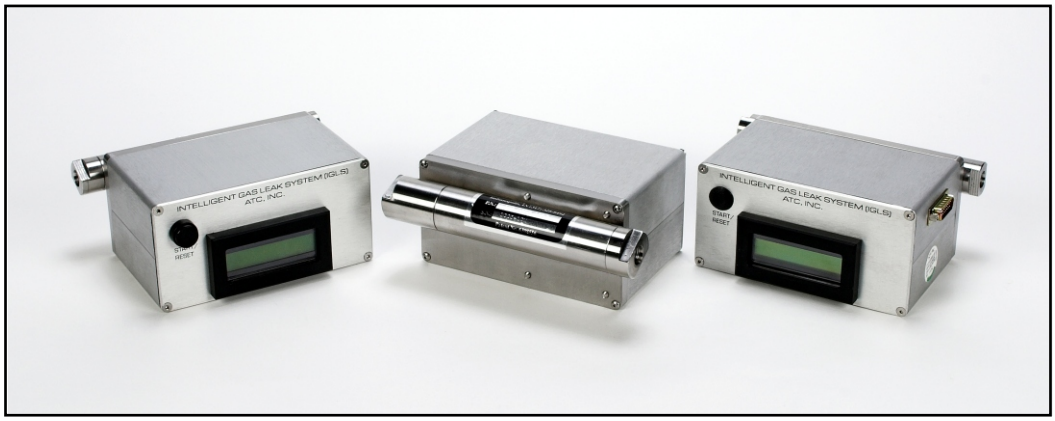
Product Applications

- 2 psia to 24.5 psia (mild vacuum to low pressure)
- Leak Rates: $1x10^{-5}$ sccs at 2 psia
- Used for Mass Extraction applications
- Can be used for applications with low positive pressure and tight leak specification
- Detection of 2 micron defects or larger

NOTE: The IGLS is a part of ATC's complete leak test instruments, portable unit, or part of a larger automated test system. The micro-flow sensor is not available by itself.

Product Features

- Intelligent Gas Leak Sensor (IGLS)
- Measures volume flow - using ATC's patented **ALF** design
- Measures absolute downstream pressure and temperature
- Stainless steel rugged construction
- No moving parts
- No over-flow sensitivity
- Measurement units select by user, typically mm^3/min (µL/min)
- Lowest capable measurement, $1x10^{-6}$ sccs at 2 psia



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Micro-Flow Sensors

MODEL: IL2-M

FLOW RANGE

0-25; 0-50; 0-100; 0-250; 0-500; 0-990 mm^3/min (micro liters/min)
Sensor Type: Accelerated Laminar Flow (ALF)
Measurement Uncertainty: +/- 2% of reading (1% optional), calibrated range

PRESSURE RANGE

0-15; 30; (psi-absolute)
Type: Absolute, silicon micro-machined
Measurement Uncertainty: 0.2% of Full Scale (FS)
Maximum over Pressure: 1.2 times full range/scale

TEMPERATURE RANGE

Operating and Calibrated: 10 to 45 °C
Storage: -25 to 50 °C
Sensor Type: RTD 100 Ohms
Measurement uncertainty at calibrated range: 0.5 °C

RESOLUTION

16 bits A/D and 16 bits D/A

INTERFACE

Serial port
Digital I/O: Start/Stop, type clamp and more...
Analog I/O
Power: 115 or 220 VAC, single phase
Optional: 2-line character display

MAX DIFFERENTIAL PRESSURE

Maximum 10 psi, differential

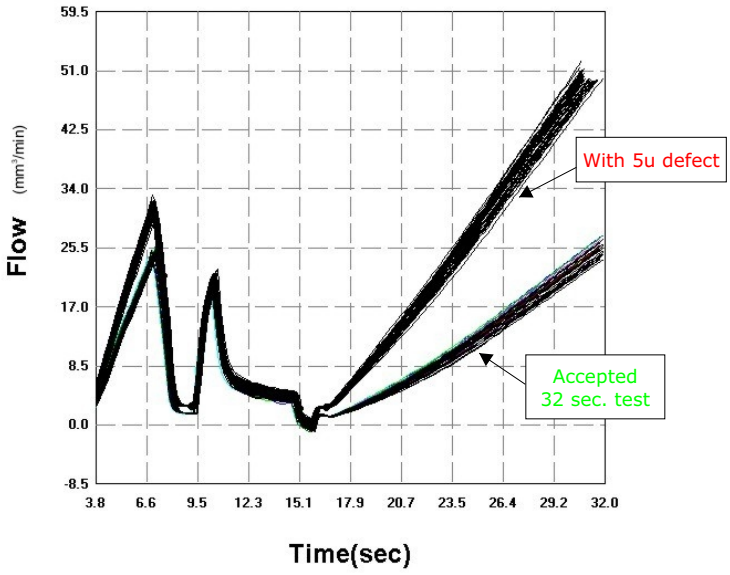
GASES USED

Use dry non-condensing and clean gases
Air, Nitrogen, Helium, Argon, & Carbon Dioxide
Other Gases Available, consult ATC.

RESPONSE TIME

Step function: from no flow to full range - 50 ms or less
Sensor only, no volume

MASS EXTRACTION TESTS - Multiple Runs with and without a 5 micron defect.



The COMPLETE Solution For Your Most Challenging Automatic Leak Flow Testing

Version 1.2