

Leak Test Instruments

MODEL ME3

Instrument Applications

In-line high speed container closure integrity testing using ATC's Mass Extraction technology (vacuum)

High speed sampling using ATC's Mass Extraction Technology

Multiple instruments for high-speed production lines

Slip and viscous flow regime (2 psia to barometric pressure), leak tightness from 1×10^{-4} sccs at 2 psia

Or Hard vacuum—molecular flow (less than 0.1 psia), leak tightness from 7×10^{-7} sccs at 0.02 psia

Mass Extraction tests at lower instrument cost compared to off-line tests

Cleanroom or industrial applications

Features

Designed to be part of a rotary or linear continuous operation system

Micro-Flow sensor—IGLS or IMFS

Automated vacuum test circuit, uniquely designed for ultra-tight leak test

High-speed evacuation circuit, for in-line process testing, where short test times are required

Large leak and fine leak tests

Stainless steel enclosure with measurement circuit- can be part of a moving station (e.g. dial table, up and down movements)

Displays real time pressure, flow test messages

Separate controller box can support up to 5 instruments

Slave to a remote PLC/PC

Ethernet interface to simplify integration



The Model ME3 is an in-line high speed container closure integrity testing unit that utilizes ATC's Mass Extraction Technology (vacuum). Built for high-speed production lines capable of detecting a fraction of a micron defect size, or high speed production up to 120 ppm with multiple stations.

Applicable Micro-Flow Sensors

Vacuum sensor: IL2-M, calibrated from 2 psia to barometric (slip and viscous flow regimes)

Hard vacuum sensor: IMFS, calibrated from 0.01 to 0.2 psia (molecular and transitional flow regimes)

See options chart for available options

Specifications

Dimensions & Access

- 6 3/4"W, 11 1/8"H, 22 1/4"D (does not include connectors & fittings)

Gases

Dry, clean gases: air, nitrogen

For other gases consult ATC

Connections, I/O, & Power

1. **Pneumatic connections:**
Test port on side of instrument
Air supply: 1/4 inch Swagelok®
2. **RJ45 Ethernet or RS232 Serial Interface**
3. **Digital Inputs:** 5 VDC, NPN Opto-Isolated for start, stop, type, pressure switch, verify

Digital Outputs: 30 VDC-20 mA, NPN, Opto-isolated for pass, fail, clamp, test type, exhaust and custom

Analog outputs: single channel, 0-5 VDC pressure control

4. **Power Supply:**
115VAC-60Hz
220VAC-50Hz (optional)



The COMPLETE Solution For Your Most
Challenging Automatic Leak Flow Testing

Phone: (317) 328-8492
Fax: (317) 328-2686