

# Leak Test Instruments

## MODEL E-PDQ

### Instrument Applications

- Leak testing of consumer electronic devices and small medical products (small size parts)
- Testing of medium size parts with optional expansion tank
- Leak testing under pressure or Mass Extraction (vacuum)
- Leak rates from 0.03 cc/min and higher
- Pressure ranges: 0 to 65 psia
- Leak test instrument for high-speed automatic production lines
- Designed for easy integration

### Features

- Micro-Flow sensor—IGLS
- Compact design provides small footprint
- Version EQ offers pressure testing
- Version MQ offers Mass Extraction testing under vacuum
- Remote Bluetooth graphical touchscreen display with LeakTek Program™ and data storage\*
- Remote touchscreen display for rugged operation with no data storage
- Automated test circuit with valves and sequence controller
- Ethernet or serial, and digital I/O interface
- Easy to read LED to indicate test status: test, pass, or fail

\*Compatible with Microsoft Windows® 10



*Model E-PDQ is the complete instrument designed for quick production leak testing of small components, ensuring that products meet their leak tightness requirements.*

### Available Options

- LeakTek Program™ site license for maintenance and engineering purposes as well as data collection. Compatible with Microsoft Windows® 7 and later operating systems.
- Remote precision pressure regulator with gage and mounting bracket.
- Optional verification orifice (calibrated leak)—Equivalent Channel, Model ECD
- Remote exhaust valve
- Quick disconnect for optional remote calibrated leak orifice
- Vacuum generation and control package
- Expansion tank for testing medium size parts
- Back DIN rail mounting

## Specifications

### Measurement Ranges

Flow Range: 0-25, 0-50, 0-100, 0-250, 0-500, 0-1000, 0-3000, 0-5000  
mm<sup>3</sup>/min (micro-liters/min)

0-10, 0-25, 0-50, 0-100, 0-250 cc/min (mL/min)

Measurement Uncertainty: +/- 5% of reading (calibrated range)

Pressure Range: 0-15, 0-30, 0-65 psia

Measurement Uncertainty: +/- 0.25% of full range

Temperature Range: 0-50 °C

Measurement Uncertainty: +/- 0.5 °C

### Dimensions

4"W, 6.25"H, 10"D (Does not include connections & fittings)

### Gases

Dry, clean gases: air, nitrogen

For other gases consult ATC



## Connections, I/O, & Power

1. **Pneumatic connections:**  
Test port on front of instrument, 1/8 inch Swagelok®  
Air supply: 1/4 inch Swagelok®

2. **RJ45 Ethernet, or RS232 Serial Interface**

3. **Digital Inputs:** 5-30 VDC, Opto-Isolated for start, stop, test type, remote pressure switch

**Digital Outputs:** 5-30 VDC, Opto-isolated for pass, fail, test type, test on, clamp, custom output

4. **Power Supply:**  
24 VDC (maximum current is 2 amp)



The COMPLETE Solution For Your Most Challenging Automatic Leak Flow Testing

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