



Model 2023-1 · Leak Rate Monitor

Product Overview

The Model 2023-1 is a small, highly portable single-range device with a 1,000:1 turn-down ratio — ideal for quick, accurate measurement of leaks in valves, fittings, and penetrations. Battery or wall powered, employing the flow make-up method with a color touch screen display and time-stamped USB output. A built-in bypass enables rapid filling of large-volume components under test.

Key Features

- Single-range device — 1,000:1 turn-down ratio
- Instant ready: less than 1-second warm-up time
- Battery or 24 Vdc wall-powered operation
- Color touch screen with intuitive user interface
- USB data logging — time-stamped to Excel format
- Built-in bypass line for rapid filling of large-volume components
- Supports numerous pure gases and gas mixtures
- ¼" and ⅜" compression or FNPT process connections
- Optional high-pressure configuration up to 320 psia

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Technical Specifications

Pressure Regulator	Max inlet: 170 psig · Outlet: 0–90 psig · Isothermal spring temp compensation	Flow Accuracy	±1% of reading or ±0.1% of full scale (whichever is greater)
Flow Repeatability	±(0.1% of reading + 0.02% of full scale)	Rangeability	0.1% to 100% of full scale (1,000:1 turn-down)
Test Pressure	Full scale: 100 psig (or user-specified) Accuracy: 0.5% FS after tare	Pressure Range	11.5 to 170 psia standard; up to 320 psia (high-pressure option). Gauge pressure option.
Response Time	<10 ms typical	Pressure Accuracy	±0.5% of reading after tare
Power Supply	24 Vdc wall adapter or 24 Vdc internal battery pack · Warm-up: <1 second	Connections	¼" and ⅜" compression fittings or ¼" FNPT
Dimensions	18.2" L × 13.4" W × 6.7" D	Weight	Approx. 17 lb. (7.7 kg)

Available Flow Ranges

Single Range 20 · 50 · 100 · 200 · 500 sccm · 1 · 2 · 5 · 10 · 20 · 50 · 100 · 250 slpm

All units custom-built to order — contact us for a quotation.

Fluxion Technologies LLC

Each unit is custom-built to your specifications.

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