



Precision Mass Flow Meters & Controllers for Gases

Choose the
ideal technology
to measure and control
your application.

You can be certain.



For over 50 years, Sierra has been a pioneer in the design and manufacturing of precise flow measurement instruments you can trust.

Today, we produce accurate and reliable flow solutions that optimize customer processes in aerospace, semiconductor, biopharmaceuticals, food and beverage, and R&D labs.

Global representatives provide our innovative flow measurement products and services when and wherever needed.

Sierra. Measurably Different.®



ROCK SOLID RELIABILITY

RedySmart®

Models

- THERMAL: Direct Mass Flow Meter and Controller

Accuracy

- Standard Accuracy: $\pm 1.0\%$ of full scale
- Highest Accuracy up to $\pm 0.3\%$ full scale plus $\pm 0.5\%$ of reading

Highlights

- Up to 10 gases or gas mixes
- Micro Electro-Mechanical System (MEMS) technology
- Repeatability: Better than $\pm 0.2\%$ full scale
- Long-term stability, turndowns of 100:1 (options for higher rangeability)
- 3-year warranty on device / Lifetime no-drift sensor warranty
- Modularity: Connect up to 8 MFCs on a single block
- Free Interface Portal Software. Optional display available

Flow Range

- 0 to 500 slpm



MULTIPARAMETER FOR HIGH FLOWS

d.flux

Models

- DIFFERENTIAL PRESSURE: Meter and Controller

Accuracy

- Up to $\pm 0.3\%$ of user full scale, $\pm 0.5\%$ of measured value

Highlights

- Multiparameter: Measures mass and volumetric flow, temperature, pressure, and density
- Program up to 15 gases or gas mixes. Change in field. No loss in accuracy
- Repeatability: Better than $\pm 0.2\%$ of full scale
- Sensor Stability: Less than 0.2% of measured value
- Monitor on the go with downloadable Bluetooth app for Android devices
- 3-year warranty on device

Flow Ranges

- 0 to 1500 slpm for Air. 0 to 3120 slpm for Hydrogen. Many other gases/ gas mixes available



DUST PROOF & WATER RESISTANT

RedyIndustrial®

Models

- THERMAL: Mass Flow Meter and Controller

Accuracy

- Standard Accuracy: $\pm 1.0\%$ of full scale
- Highest Accuracy up to $\pm 0.3\%$ full scale plus $\pm 0.5\%$ of reading

Highlights

- Direct Mass Flow
- Up to 10 gases or gas mixes
- Micro Electro-Mechanical System (MEMS) technology
- Repeatability: Better than $\pm 0.2\%$ of full scale
- Lifetime no-drift sensor warranty
- Meets IP67 ratings, ATEX Certification
- User-friendly RedySmart Interface Portal Software

Flow Ranges

- 0 to 500 slpm



SWISS ARMY KNIFE SmartTrak® 100

Models,

- THERMAL: 100 Series, Direct Mass Flow Meters and Controllers

Accuracy

- +/- 1% of full scale, +/- 0.5% of full scale available

Highlights

- Up to 10 gases or gas mixes
- Most clean gases including toxics and corrosives
- Repeatability: Better than +/- 0.2% of full scale
- Patented, inherently linear LFE with platinum wound capillary sensor
- Small footprint for easy replacement of legacy devices
- Field adjustable with multifunction pilot module display interface

Flow Ranges

- 0 to 1000 slpm



ECONOMICAL FOR OEMS SmartTrak® 50

Models

- THERMAL: 50 Series, Direct Mass Flow Meters and Controllers

Accuracy

- +/- 1.0% of full scale

Highlights

- Most clean gases
- Repeatability: Better than +/- 0.25% of full scale
- Patented inherently linear LFE with platinum wound capillary sensor
- Aluminum or stainless steel
- Large display
- Primary Standard Calibration and NIST traceability

Flow Ranges

- 0 to 200 slpm



PERFECT VA REPLACEMENT RedyCompact™

Models

- THERMAL: Direct Mass Flow Meters and Regulators

Accuracy

- Standard: +/- 2% of full scale / Optional: +/- 1% of full scale

Highlights

- Direct Mass Flow
- Micro Electro-Mechanical System (MEMS) technology
- Up to 3 different gases or gas mixtures
- Repeatability: +/- 0.2% of full scale
- No-drift (lifetime warranty) CMOS sensor
- Battery operated, with large, easy to use touchscreen display / optional pulse/analog-out, alarm or power module available
- Ideally suitable as mobile calibrator in the field

Flow Ranges

- 0 to 500 slpm



INDUSTRIAL WORKHORSE

TopTrak™

Models

- THERMAL: 820 Economical Direct Mass Flow Meters for OEMs

Accuracy

- +/- 1.5% of full scale

Highlights

- Most gases, check compatibility with wetted materials
- Nylon, stainless steel
- Platinum sensor minimizes drift
- Large cleanable sensor tube for use with dirty gases (stainless steel)
- Repeatability +/- 0.5% of full scale
- Large tiltable display

Flow Ranges

- Up to 500 slpm



CORROSIVE & TOXIC GASES

SideTrak™

Models

- THERMAL: 830 / 840 Analog Mass Flow Meter and Controller

Accuracy

- +/- 1% of full scale

Highlights

- Most gases including toxics, corrosives, and combustibles
- 316 stainless steel
- Capillary sensor tube is cleanable with needle, provides low pressure drop
- Repeatability: +/- 0.15% of full scale
- Available with a wide variety of process connections
- Primary Standard Calibration and NIST Traceability

Flow Ranges

- Up to 500 slpm



CALIBRATION STANDARD

DryCal®

Model

- Flow Calibrator: Mesa Labs ML-800, ML-1020 / ML-1500 High Flow

Accuracy

- +/- .15% of reading (ML-800)
- +/- .25% of reading (ML-1020)
- +/- .45% of reading (ML-1500)

Highlights

- Highest accuracy primary standard for labs and industry
- Quick, easy to use – Automatic data capture
- Any non-corrosive, non-combustible gas
- Portable and battery operated
- Innovative – 100:1 turndown

Flow Range

ML-800: 0.5 sccm to 100 slpm

High flows: 5 to 500 slpm (ML-1020 model), 15 to 1500 slpm (ML-1500 model)

DryCal ML-800, formerly named CalTrak 800, is manufactured by Mesa Labs for Sierra Instruments.
DryCal ML-1020 / ML-1500, formerly named CalTrak XL, is manufactured by Mesa Labs for Sierra Instruments.
DryCal is a registered trademark of Mesa Labs.



SIERRAINSTRUMENTS.COM

NORTH AMERICA

20 Ryan Ranch Road, Suite 109 / Monterey, CA 93940 / USA

1.831.373.0200

ASIA-PACIFIC

Second Floor Building 5 / Senpu Industrial Park
25 Hangdu Road Hangtoun Town / Pu Dong New District
Shanghai, P.R. China Post Code 201316

+8621 5879 8521/22

