



Do what you want, faster

Since 1991, Alicat has worked closely with those at the forefront of scientific discovery and technological development. We provide fast instruments, fast delivery, and fast answers so you can focus on getting fast results.

Alicat offers:

- Custom-engineered mass flow and pressure devices with multivariate measurement and control
- NIST-traceable calibrations, ISO and ATEX certifications, ROHS compliance, and CE marks
- Lifetime warranty and free technical support from our skilled applications engineers

How our mass flow devices work

Alicat differential pressure mass flow instruments measure flow using innovative laminar differential pressure technology:

1. As a turbulent gas flow enters the device, it travels into a chamber designed to laminarize the flow.
2. Internal sensors measure the differential pressure across the chamber, which is used to calculate mass flow and volumetric flow.
3. Readings are taken each millisecond, ensuring fast and accurate measurement and control.

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With manufacturer's representatives worldwide.



FAST · ACCURATE · RELIABLE
MASS FLOW and PRESSURE
INSTRUMENTATION



A Halma company



Mass Flow

Fast, accurate, differential-pressure-based, mass flow measurement. Multivariate measurement and control of mass flow, volumetric flow, or pressure with one device.

Meters and Controllers

- Multivariate readings of mass flow, volumetric flow, pressure, and temperature
- Up to 130 pre-loaded gas calibrations
- NIST-traceable: accuracies as good as 0.5% of reading
- 10 ms measurement response; 30 ms control response
- Flow rates from 0.5 SCCM to 5000 SLPM
- Measurement and control range: 0.01%–100% of full scale
- No warm-up time

CODA Coriolis

New high-accuracy mass flow devices insensitive to external vibration and independent of fluid composition.

Meters and Controllers

- Vibration-insensitive readings
- NIST-traceable: accuracies as good as 0.2% of reading
- Pressures up to 4,000 PSIA
- Flow rates from 0.08–100,000 g/h
- Totalizer standard on every device

Liquid

Fast and stable measurement and control of volumetric flow and pressure.

Meters and Controllers

- Highly repeatable and reliable measurement and control for liquid applications
- NIST-traceable: accuracies of 2% of full-scale
- 20 ms meter response
- 100 ms control response
- No warm-up time

Pressure

Devices for absolute, gauge, or differential pressure. Fast, repeatable control for flowing, dead-ended, or vacuum processes.

Gauges and Controllers

- Rapid response with high control stability
- Custom pressure ranges from 10 TorrA to 3000 PSIG or 500 PSID
- NIST-traceable: accuracies as good as 0.125% of reading
- 10 ms measurement response
- 30 ms control response
- Measurement and control range: 0.01%–100% of full scale

CUSTOM CONFIGURATIONS FOR YOUR APPLICATION



Anti-Corrosive

Compatible with 32+ pure corrosive gases and most refrigerant gases.



Low Pressure Drop

Measure and control flow rates with pressure drops as low as 0.07 PSID.



Bidirectional Flow

Control volumetric flow, mass flow, or pressure in both directions with just one device.



OEM

Compact, highly customizable package for easy integration of flow and pressure devices into OEM applications.



Portable

Ideal for on-the-go process calibration, verification, and validation.



IP-Rated

Most devices configurable up to a rating of IP67.