

BASIS™ 2 electronic mass flow meters and controllers expand to 100 SLPM

Alicat™ Scientific releases higher-flow model of OEM-style BASIS 2 MEMS thermal MFCs and meters

TUCSON, AZ, UNITED STATES, March 7, 2024 /EINPresswire.com/ -- Alicat Scientific, of Tucson, Arizona, added a higher flow range—now up to 100 standard liters per minute (SLPM)—to its BASIS 2 line of low-cost MEMS-thermal mass flow controllers and meters, expanding the product family tree of the BASIS 2 electronic mass flow controllers that were introduced in January, 2024. With the additional model, the product line's measurable and controllable flow range now spans from 0.1 standard cubic centimeters per minute (SCCM), using the lowest flow model at 0.1% of its maximum flow range, to 100 SLPM, using the new model at its 100% flow rate.



The BASIS 2 mfc line is compact and low cost. Now ranged to 100 SLPM.

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With the new larger flow body, we now have a platform with several options suitable for customizing electronic mass flow integration... [that users can adapt] to their unique needs.”

David Davis, VP of Engineering

Small but adaptable

The new model retains the compactness of the rest of the BASIS 2 product line by occupying a mere 1.38" x 4.52" x 2.06" volume (35 mm x 115 mm x 53 mm, DWH). The hard-anodized aluminum flow body is lightweight while providing protection from chemical reactivity and adding substantial physical durability.

David Davis, VP of Engineering at Alicat said, “With the new larger flow body, we now have a platform with several options suitable for customizing electronic mass flow

integration. Our rapid prototype engineering approach means customers with special requirements can adapt this small, accurate and low-cost off-the-shelf concept to their unique needs.”

Transitioning from manual and mechanical controls to electronic precision and automation

The compact form factor of BASIS 2 helps engineers and technicians incorporate them into production facilities, the assembly of portable packages, and into gas mixing systems that seek a low payload. Their all-metal flow bodies have greater robustness than similar plastic assemblies. Users can run BASIS 2 instruments directly on power-up, with digital inputs, analog

voltage or current regulation—without needing to disassemble or rewire the instrument. Alicat BASIS 2 MFCs provide best-in-class accuracy and are programmed in such a way as to provide switching between nine common gases in the field without recalibration. Their totalizer function is an advanced capability for an entry-level device, that can be used in dosing and dispensing.

Alicat flow and pressure devices perform such varied activities as helping to perfect hydrogen-electric energy generation, the spinning of glass optical fibers for telecommunications, testing of rocket parts for leaks, heating furnaces for ceramics, and generating pharmaceuticals through biochemical processing.

With their small size and high accuracy, BASIS 2 are low-cost improvement options for processes like carrier gas control for analyzers, sparging control for bioreactors, and industrial burner control.

Edgar Schrock
Alicat Scientific

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Alicat Scientific makes science-grade meters and controllers for fluids and gases.

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