

OPTIONS, ACCESSORIES, SUPPORT

- At Alicat, we will work with you to solve your flow management problems.
- Our engineers are always accessible and pride themselves in finding innovative ways to meet your flow application needs.
- Whether for research or OEM, our instrumentation can usually be configured or customized to meet your specific requirements.
- Although our instruments are unequalled in stand-alone functionality, Alicat offers a wide range of options and accessories.

MORE COMMUNICATION OPTIONS

You can now order any Alicat instrument with RS-232, RS-485, PROFIBUS DP-V1 or DeviceNet compatible communications!



ATEX & CSA CLASS 1 DIVISION 2

Alicat has attained ATEX and CSA approval for the use of Alicat Mass Flow Meters, Mass Flow Controllers and Pressure Equipment in Class 1 Division 2 hazardous environments for Canada and the United States and Class 1 Zone 2 for Europe.



TFT LCD COLOR DISPLAY OPTION

- ▶ Hi-Contrast, Backlit Multi-Color TFT LCD
- ▶ Increased Baud Rates Available (up to 115200)
- ▶ 125% Faster Processor Speed
- ▶ PID Algorithm Selection: pdf or pd2i



DB15 Connector

The DB15 style electrical connector is available as an alternative to Alicat's standard 8-pin mini-din connection or optional 6-pin locking industrial connection.

The DB15 pin-outs can be configured to easily integrate with many existing 15-pin cabling set-ups.



Lifetime Warranty!

And Technical Support with every Alicat Instrument

Whether your application calls for precision, speed or flexibility, let Alicat make your job easier.

- ▶ You'll get quick delivery with outstanding standard features and a wide choice of options.
- ▶ Our engineers have what it takes to ensure you are getting the most from your device and more importantly your application.
- ▶ Our service department provides low cost recalibrations and quick turnaround.

Call (888) 290-6060 or visit our web site to learn more about Alicat's unique line of flow and pressure products.

REMOTE DISPLAY

Our Remote Display (RD) option offers the flexibility of using Alicat's display with units that are embedded inside processes.

The RD retains all of the same features as our standard display. TFT color remote display option shown at right.

Our digital display allows you to monitor flow, temperature and pressure data in real time. Depending on the device, the display also permits you to easily select a gas, control set-point or activate tare.

The Remote Display is ideal for:

- ▶ OEMs Remote Panel mounting
- ▶ Gas panels
- ▶ Leak detection systems
- ▶ Embedded systems
- ▶ Fuel cell test stations
- ▶ Artificial environments



REMOTE ELECTRONICS for High Temperature Applications

Some applications involve ambient and operating temperatures outside the standard Alicat device specifications. Our Remote Electronics option addresses this dilemma.

Relocating the electronics allows for installation of the flow body in ambient temperatures as high as 85° Celsius with gas temperatures up to 100° Celsius.

Remote Electronics can also be useful in applications that require the installation of a compact flow package.

NeSSI COMPATIBLE

Alicat Scientific is a proud participant in **NeSSI (New Sampling/Sensor Initiative)**.

Many Alicat instruments are now available in a **NeSSI** compatible design.

If your application calls for a **NeSSI** device, please let us know. We are committed to providing superior instruments that will meet your requirements.



WELDED FITTINGS

For applications in which cleanliness of the gas stream is paramount, Alicat offers welded VCR® and VCO® style fittings.

VCR® and VCO® fittings are commonly used in vacuum and low pressure processes.

Welded fittings are available on almost all Alicat products and can be ordered in a variety of configurations.

IPC (Integrated Potentiometer Control)

The IPC option is an easy way to adjust the set-point of any Alicat controller.

The single turn potentiometer allows the operator to select a control set-point without an external control input signal.

Simply plug in the power supply, attach your gas flow lines and you're ready to accurately control your flow.



Please visit our web site or call Alicat for additional customization options, including:

Gas Mixtures, Totalizer, Customized Pressure Drops, Bi-Directional Flow Readings, Alarms, Alternate Units of Measure and more!

ACCESSORIES

BB9 Multi-Drop Box

The **BB9 Multi-Drop Box** makes it convenient to wire multiple flow and/or pressure devices to a single RS-232 / RS-485 port. **Now available with a USB interface!**

The Multi-Drop Box has nine 8 pin mini-DIN ports available. The ports are to be used with a standard double ended 8 pin mini-DIN (DC-62) style cable going from the box to each flow or pressure device.

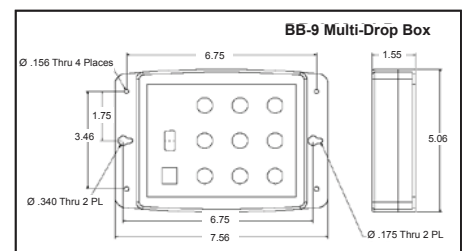
A single DB9 D-SUB type connector (COM PORT) connects, using the included cable, to the serial connector on a PC or laptop.

All of the flow and/or pressure devices may be powered via a terminal block on the front of the box.

If more than nine devices will be required, additional Multi-Drop Boxes can be daisy chained together with a double ended 8 pin mini-DIN cable plugged into any receptacle on both boxes.

BB9 Power Supply for Large Valve Controllers: The PS24VHC (Power Supply 24Vdc High Current) is a 6.5Amp 24Vdc power supply designed for running multiple large controllers on a BB9.

The 6.5Amp power supply can run as many as 8 large valve controllers, which makes it ideal for the BB9 and multiple large valve (or small valve / large valve combination) controllers on a BB9.



Power Supply

Power supplies are typically ordered to facilitate "out of box" use of Alicat devices when it is inconvenient or impossible to provide DC power to a device through the electrical connector.

VPVS24U: This universal power adapter accepts 100 to 240 VAC 50/60 Hz power and changes it to a regulated 24 Vdc capable of producing 1000mA. The adapter includes five interchangeable AC plugs for convenient use world-wide.

Fittings, Filters, Adapters

We carry a full line of Swagelok® compression fittings in 316 stainless steel. Other fittings and filters are available upon request.

MNPT to Compression Fittings	
10-32 - 1/8"	SS-200-1-0157
10-32 - 1/4"	SS-400-1-0256
1/8" - 1/8"	SS-200-1-2
1/8" - 1/4"	SS-400-1-2
1/8" - 3/8"	SS-600-1-2
1/8" - 1/2"	SS-810-1-2
1/8" - 3mm	SS-3M0-1-2
1/8" - 4mm	SS-4M0-1-2
1/8" - 6mm	SS-6M0-1-2
1/8" - 8mm	SS-8M0-1-2
1/8" - 12mm	SS-12M0-1-2
1/4" - 1/8"	SS-200-1-4
1/4" - 1/4"	SS-400-1-4
1/4" - 3/8"	SS-600-1-4
1/4" - 1/2"	SS-810-1-4
1/4" - 3mm	SS-3M0-1-4
1/4" - 4mm	SS-4M0-1-4
1/4" - 6mm	SS-6M0-1-4
1/4" - 8mm	SS-8M0-1-4

MNPT to Compression Fittings	
1/4" - 12mm	SS-12M0-1-4
1/2" - 1/8"	SS-200-1-8
1/2" - 1/4"	SS-400-1-8
1/2" - 3/8"	SS-600-1-8
1/2" - 1/2"	SS-810-1-8
1/2" - 3/4"	SS-1210-1-8
1/2" - 6mm	SS-6M0-1-8
1/2" - 8mm	SS-8M0-1-8
1/2" - 12mm	SS-12M0-1-8
1/2" - 16mm	SS-16M0-1-8
3/4" - 1/4"	SS-400-1-12
3/4" - 1/2"	SS-810-1-12
3/4" - 3/4"	SS-1210-1-12
3/4" - 12mm	SS-12M0-1-12
3/4" - 16mm	SS-16M0-1-12

Filters & Elements FNPT-MNPT	
10-32 5μ	510053
10-32 20μ	510054
1/8" 20μ	ILF-1/8-20
1/4" 40μ	ILF-1/4-40
1/2" 40μ	ILF-1/2-40*
3/4" 40μ	ILF-3/4-40*
20μ element	ILFE20
40μ element	ILFE40
40μ element	ILFE40L*

Filters & Elements FNPT-FNPT*	
10-32 5μ	CF-303-20-316

*requires MNPT to MNPT coupler to interface with Alicat flow bodies

10-32 Male UNF to 1/8 FNPT Adapter	
410133	
Male M5 (10-32) Buna-N O-ring face seal to 1/8"Female NPT	

*Our micro-flow devices (i.e. gases ≤50SCCM full scale and water ≤1CCM full scale) utilize an M5 (10-32) thread female process connection. This connection was chosen to provide a thread that is compatible with miniature process fittings.

Connecting Cables - Recommended Accessory

The electrical connector on most Alicat units is female. A male connecting cable can be ordered: to provide power to the unit from a customer supplied DC voltage source; to access output and input signals in communication; or to activate remote tare.



DC-61: 8-pin circular mini-din connector cable, 6' long with one male connector. The opposite end is blunt cut with color-coded wires.
DC-251 =25'; **DC-501**=50';
DC-751=75'; **DC-1001**=100'



MD8DB9: Male 8-pin circular din to female DB9 adapter cable, 6' long, typically used to simplify connection direct to a PC.
It will not pass power to the unit.



DC-62: Double-ended male 8-pin circular mini-din connector cable in 6' length. It is a straight pin-to-pin cable.
DC-252 =25'; **DC-502**=50'



DBC-251: Cable - Single Ended DB15 Female, 25'



DC-6RT: Lower profile alternative. This is a right angle, 8-pin circular mini-din connector cable at 6' long with one male connector. The opposite end is blunt cut with color-coded wires.



510368: Cable - Female DB15 to Female DB15, 15'



IC-10: 6-pin industrial style locking cable, 10' long with one male connector. Opposite end is blunt cut with color-coded wires. This cable reduces the number of optional signal configurations.
IC-20 = 20'; **IC-50** = 50'



DB9MDB9F: Cable Null Modem DB9M to DB9F 3 meters long



IC-102: 6-pin industrial style locking cable, 10' long with two male connectors.



510199: Cable - Female DB9 to Female DB9, 3 meters long

