

Technical Data for Low Flow M Mass Flow Meters

0 to 100 SCCM Full Scale through 0 to 20 SLPM Full Scale

The following specifications are for the standard configuration of the product. There are many options available.

| Specification | Mass Meter | Description |
|---|---|--|
| Accuracy | ± (0.8% of Reading + 0.2% of Full Scale) | At calibration conditions after tare |
| High Accuracy Option | ± (0.4% of Reading + 0.2% of Full Scale) | At calibration conditions after tare |
| Accuracy: Bi-directional Meters Only | ± (0.8% of reading + 0.2% of total span positive full scale to negative full scale) | At calibration conditions after tare |
| Repeatability | ± 0.2% | Full Scale |
| Operating Range | 1/2% to 100% | Full Scale |
| Turndown Ratio | 200 : 1 | |
| Typical Response Time | 10 | Milliseconds (Adjustable) |
| Standard Conditions (STP) | 25°C & 14.696PSIA | Mass Reference Conditions |
| Operating Temperature | -10 to +50 | °Celsius |
| Zero Shift | 0.02% | Full Scale / °Celsius / Atm |
| Span Shift | 0.02% | Full Scale / °Celsius / Atm |
| Humidity Range | 0 to 100% | Non-Condensing |
| Measurable Flow Rate | 128% | Full Scale |
| Maximum Pressure | 145 | PSIG |
| Output Signal Digital | Mass, Volume, Pressure & Temperature | RS-232 Serial or RS-485 Serial or PROFIBUS or DeviceNet ¹ |
| Output Signal Analog | Mass Flow | 0-5Vdc |
| Optional Output Signal Secondary Analog | Mass, Volumetric Pressure or Temperature | 0-5 Vdc or 0-10Vdc or 4-20mA |
| Electrical Connections | 8 Pin Mini-DIN or DB-15 | |
| Supply Voltage | 7 to 30 Vdc (15-30Vdc for 4-20mA outputs) | |
| Supply Current | 0.040 Amp (+ output current on 4-20mA) | |
| Mounting Attitude Sensitivity | 0% | Tare after installation |
| Warm-up Time | < 1 | Second |
| Wetted Materials ² | 303 & 302 Stainless Steel, Viton®, Silicone RTV (Rubber), Glass Reinforced Nylon, Aluminum. | |

1. If selecting PROFIBUS or DeviceNet no analog signal is available. PROFIBUS / DeviceNet units do not have the display. See PROFIBUS or DeviceNet specifications for PROFIBUS or DeviceNet supply voltages and currents.
2. If your application demands a different material, please contact Info@alicatscientific.com or 888-290-6060 for available options.

Mechanical Specifications

| Full Scale Flow Mass Meter | Mechanical Dimensions | Process Connections ¹ | Pressure Drop ² (PSID) |
|----------------------------|-----------------------|----------------------------------|-----------------------------------|
| 100SCCM to 20SLPM | 4.1"H x 2.4"W x 1.1"D | 1/8" NPT Female | 1.0 |

1. Compatible with Beswick®, Swagelok® tube, Parker®, face seal, push connect and compression adapter fittings.
2. Venting to atmosphere. Lower Pressure Drops Available, please contact Info@alicatscientific.com or 888-290-6060.

100SCCM to 20SLPM approximate shipping weight: 1.0lb