0.5 sccm full scale through **5 sccm** full scale

Standard specifications. Consult Alicat for available options.



| SENSOR PERFORMANCE | | | |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Mass flow accuracy ¹ | ± 0.8% of reading and ± 0.2% of full scale | | |
| Flow repeatability (2σ) | ± (0.2% of reading ± 0.02% of full scale) | | |
| Pressure accuracy ¹ | Available for ≥ 5 sccм models | | |
| Flow measurement range | 0.01 – 100% of full scale | | |
| Operating pressure range | 11.5 – 60 PSIA | | |
| Pressure sensitivity | $\label{eq:mass_flow_zero} \begin{tabular}{ll} Mass flow zero shift and span shift: \\ $\pm (0.08\% \ of \ reading + 0.02\% \ of \ full \ scale) \ per \ atmosphere \ from \ tare \ pressure \end{tabular}$ | | |
| Temperature sensitivity | Mass flow zero shift and span shift: 0.03% of full scale per ° C from 25° C | | |
| Temperature accuracy | ±0.75 °C | | |
| Operating temperature range | -10 - 60 °C | | |
| Totalizer volume uncertainty | ± 0.5% of reading additional uncertainty | | |
| Sensor response time | <1 ms | | |
| Typical indication response time | 127 ms (user-adjustable) | | |
| Typical warm-up time | <1 s | | |

¹ Stated accuracy is after tare (for mass flow), under equilibrium conditions, includes repeatability and linearity.

| MECHANICAL | | | |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Wetted materials | 302, 303 stainless steel; Viton®, glass-reinforced polyphenylene sulfide, alumina, glass, gold, silicon, heat-cured epoxy, heat-cured silicone rubber | | |
| Maximum pressure | Damage possible above 80 PSIA common mode pressure Damage possible above 10 PSID differential pressure | | |
| Relative humidity range | 0 – 95%, non-condensing | | |
| Ingress protection | IP40 (consult Alicat for weatherproofing options) | | |
| Mounting orientation sensitivity | None | | |
| Mounting holes | 2× 8-32 UNC threaded ↓ 0.175″ [4.45 mm] | | |
| Default process connection ² | M5 female thread (10-32 compatible) ⁵ | | |

² Consult Alicat for available process connection options, such as: Compression, face seal, push-to-connect, BSPP, SAE, or Swagelok® (including tube, VCO®, and VCR®).

³ Shipped with Buna-N O-ring face seal to 1/8" female NPT fittings.

| POWER AND COMMUNICATIONS | | | |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Digital output options ⁴ | RS-232 Serial and Modbus RTU (default), RS-485 Serial and Modbus RTU, Modbus TCP/IP, DeviceNet, EtherCAT, Ethernet/IP, PROFINET, PROFIBUS, IO-Lin | | |
| Digital data update rate⁵ | 40 Hz at 19200 baud | | |
| Analog output options | 4 – 20 mA, 0 – 5 Vdc, 1 – 5 Vdc, 0 – 10 Vdc | | |
| Analog data update rate | 1 kHz | | |
| Analog signal accuracy | ± 0.1% of full scale additional uncertainty | | |
| Interactive display | Monochrome LCD or color TFT display with integrated touchpad; simultaneously displays mass flow, volumetric flow, temperature, and pressure. | | |
| Display update rate | 10 Hz | | |
| Electrical connection options ⁴ | 6-pin locking, 8-pin mini-DIN, 8-pin M12, DB-9, DB-15 | | |
| Power requirements ^{4,5} | 0–5 Vdc output: 9–24 Vdc, 40 mA 0–10 Vdc output: 12–28 Vdc, 40 mA 4–20 mA output: 12–28 Vdc, 80 mA | | |

⁴ Consult the individual operating bulletins for specific industrial protocol power requirements and data transmission specifications.

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⁵ See Portable Devices table for MWB-Series specifications and options.

0.5 sccm full scale through **5 sccm** full scale

Standard specifications. Consult Alicat for available options.

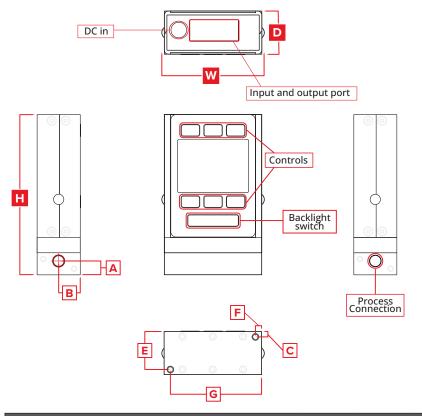


| FEATURES | | |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| STP reference conditions | 25 °C and 1 atm (default), user-configurable | |
| NTP reference conditions | 0 °C and 1 atm (default), user-configurable | |
| Gas Select™ | 98 user selectable gases stored internally. Each gas optimized to match NIST's REFPROP 10 gas property calculations across the operating temperature and pressure ranges for highest accuracy. | |
| COMPOSER™ | 20 user-definable gas mixes. Each mix may have up to 5 gases with 0.01% composition resolution. | |

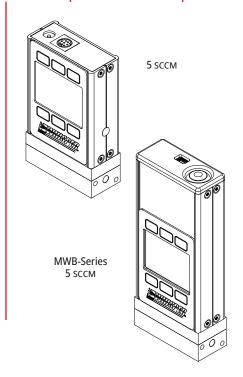
| FLOW AND PROCESS DATA | | | |
|----------------------------------------------------------------------------|-----------|--|--|
| Full scale flow Pressure drop at full scale flow venting air to atmosphere | | | |
| 0.5 – 5 sccм | 0.07 psid | | |

| PORTABLE DEVICES (MWB-SERIES) ⁶ | | | |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Power requirements | 5 Vdc, 1 A recommended via an outlet adapter to USB | | |
| Battery life | Monochrome screen: 18 hours, user-configurable, contrast dependent Color TFT screen: 8 hours, user-configurable, contrast dependent | | |
| Electrical connection and communication | Digital output: Serial over Micro-USB Power over Micro-USB Type B Bluetooth® Low Energy (requires the Alicat Connect app and a compatible Android or iOS mobile device) | | |
| Charging temperature | 0 – 45 °C | | |
| Dimensions | Portable devices (MWB-Series) add 1.646" [41.81 mm] to height, and 0.2 lb. [90.72 g] to weight. | | |

⁶ More information about our MWB-Series portable mass flow meters at alicat.com/mwb.



Representative Examples



| DIMENSIONS | | | | | | WEIGHT | | | | |
|-----------------|---------|---------|---------|--------|---------|--------|---------|--------|---------|----------|
| Full scale flow | Width | Depth | Height | А | В | С | E | F | G | |
| O.F. E.CCM | 2.38" | 1.05" | 3.90″ | 0.34" | 0.53" | 0.13" | 0.93" | 0.15" | 2.23" | ≈ 0.8 lb |
| 0.5 – 5 sccм | 60.3 mm | 26.7 mm | 99.0 mm | 8.5 mm | 13.3 mm | 3.2 mm | 23.5 mm | 3.8 mm | 56.5 mm | ≈ 0.4 kg |

10 SCCM full scale through 100 SLPM full scale

Standard specifications. Consult Alicat for available options.



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| SENSOR PERFORMANCE | | | |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Mass flow accuracy ¹ | Standard accuracy: $\pm0.75\%$ of reading or $\pm0.1\%$ of full scale, whichever is greater High accuracy: $\pm0.6\%$ of reading or $\pm0.1\%$ of full scale, whichever is greater | | |
| Flow repeatability (2σ) | ± (0.1% of reading + 0.02% of full scale) | | |
| Pressure accuracy ¹ | Above 1 atm: ± 0.75% of reading Below 1 atm: ± 0.1 PSIA | | |
| Flow measurement range | 0.01 – 100% of full scale (1:10,000 turndown ratio) | | |
| Operating pressure range | 11.5 – 60 PSIA | | |
| Pressure sensitivity | Mass flow zero shift and span shift: ±0.1% of reading per atmosphere from tare pressure | | |
| Temperature sensitivity | Mass flow zero shift: ± 0.03% of full scale per °C from tare temperature Mass flow span shift: ± 0.01% of reading per °C from 25°C | | |
| Temperature accuracy | ±0.75°C | | |
| Operating temperature range | -10 - 60 °C | | |
| Totalizer volume uncertainty | ± 0.5% of reading additional uncertainty | | |
| Sensor response time | <1 ms | | |
| Typical indication response time | 127 ms (user-adjustable) | | |
| Typical warm-up time | <1s | | |

¹ Stated accuracy is after tare (for mass flow), under equilibrium conditions, includes repeatability and linearity.

| MECHANICAL | | | |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Wetted materials | 302, 303 stainless steel; Viton®, glass-reinforced polyphenylene sulfide, alumina, glass, gold, silicon, heat-cured epoxy, heat-cured silicone rubber | | |
| Maximum pressure | Damage possible above 80 PSIA common mode pressure. Damage possible above 10 PSID differential pressure. | | |
| Relative humidity range | 0 – 95%, non-condensing | | |
| Ingress protection | IP40 (consult Alicat for weatherproofing options) | | |
| Mounting orientation sensitivity | None | | |
| Mounting holes | 10 – 20 sccm: 2× 8-32 UNC threaded ₮ 0.175" [4.45 mm] 50 sccm – 5 slpm: 2× 8-32 UNC threaded ₮ 0.300" [7.62 mm] 10 slpm: 2× 8-32 UNC threaded ₮ 0.350" [8.89 mm] 20 – 100 slpm: 4× 8-32 UNC threaded ₮ 0.375" [9.53 mm] | | |

| POWER AND COMMUNICATIONS | | | |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Digital output options ² | RS-232 Serial and Modbus RTU (default), RS-485 Serial and Modbus RTU, Modbus TCP/IP, DeviceNet, EtherCAT, Ethernet/IP, PROFINET, PROFIBUS, IO-Lin | | |
| Digital data update rate ³ | 40 Hz at 19200 baud | | |
| Analog output options | 4 – 20 mA, 0 – 5 Vdc, 1 – 5 Vdc, 0 – 10 Vdc | | |
| Analog data update rate | 1 kHz | | |
| Analog signal accuracy | ± 0.1% of full scale additional uncertainty | | |
| Interactive display | Monochrome LCD or color TFT display with integrated touchpad; simultaneously displays mass flow, volumetric flow, temperature, and pressure. | | |
| Display update rate | 10 Hz | | |
| Electrical connection options ² | 6-pin locking, 8-pin mini-DIN, 8-pin M12, 9-pin DB-9, 15-pin DB-15 | | |
| Power requirements ^{2,3} | 0-5 Vdc output: 9-24 Vdc, 40 mA 0-10 Vdc output: 12-28 Vdc, 40 mA 4-20 mA output: 12-28 Vdc, 80 mA | | |

² See Portable Devices table for MWB-Series specifications and options.

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³ Consult the individual operating bulletins for specific industrial protocol power requirements and data transmission specifications.

10 SCCM full scale through 100 SLPM full scale

Standard specifications. Consult Alicat for available options.



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| FEATURES | | |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| STP reference conditions | 25°C and 1 atm (default), user-configurable | |
| NTP reference conditions | 0°C and 1 atm (default), user-configurable | |
| Gas Select™ | 98 user selectable gases stored internally. Each gas optimized to match NIST's REFPROP 10 gas property calculations across the operating temperature and pressure ranges for highest accuracy. | |
| COMPOSER™ | 20 user-definable gas mixes. Each mix may have up to 5 gases with 0.01% composition resolution. | |

| FLOW AND PROCESS DATA | | | | |
|-----------------------|------------------------------|--------------------------------------------------|--|--|
| Full scale flow | Default process connections⁴ | | | |
| 10 – 20 sccм | 0.07 PSID | M5 female thread (10-32 compatible) ⁵ | | |
| 50 sccм – 5 slpм | 0.07 psid | 1/8" NPT Female | | |
| 10 SLPM | 0.08 psid | 1⁄4 " NPT Female | | |
| 20 SLPM | 0.25 psid | 1⁄4 " NPT Female | | |
| 40 SLPM | 0.12 PSID | 1/2 " NPT Female | | |
| 50 SLPM | 0.14 PSID | ¾" NPT Female | | |
| 100 SLPM | 0.24 PSID | ¾" NPT Female | | |

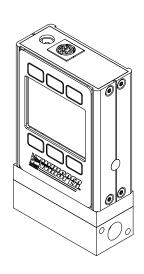
⁴ Consult Alicat for available process connection options, such as: Compression, face seal, push-to-connect, BSPP, SAE, or Swagelok®-compatible (including tube, VCO®, and VCR®).

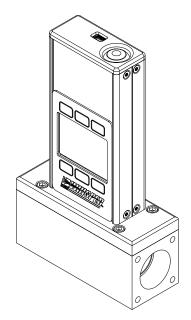
⁵ Shipped with Buna-N O-ring face seal to 1/8" female NPT fittings. (including tube, VCO, and VCR).

| PORTABLE DEVICES (MWB-SERIES) ⁶ | | | | | | |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Power requirements | 5 Vdc, 1 A recommended via an outlet adapter to USB | | | | | |
| Battery life | Monochrome screen: 18 hours, user-configurable, contrast dependent Color TFT screen: 8 hours, user-configurable, contrast dependent | | | | | |
| Electrical connection | Digital output: Serial over Micro-USB Power over Micro-USB Type B Bluetooth® Low Energy (requires the Alicat Connect app and a compatible Android or iOS mobile device) | | | | | |
| Charging temperature | 0 – 45°C | | | | | |
| Dimensions | Add 1.646" [41.81 mm] to height, and 0.2 lb. [90.72 g] to weight | | | | | |

⁶ More information about our MWB-Series portable mass flow meters at alicat.com/mwb.

Representative Examples





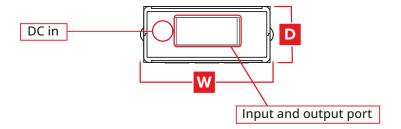
MWB-Series 50 SLPM

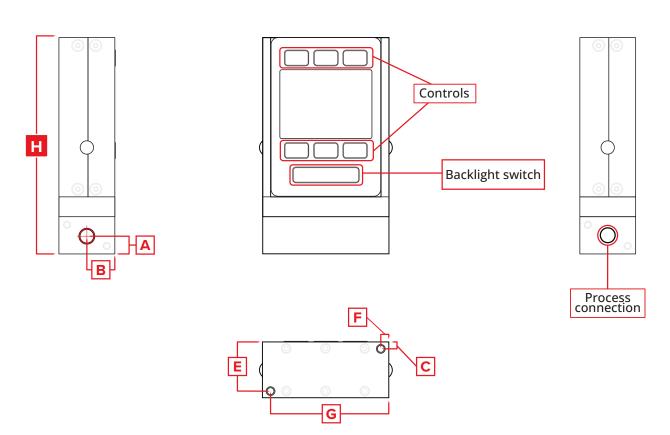
100 SCCM

10 SCCM full scale through 100 SLPM full scale

Standard specifications. Consult Alicat for available options.







| DIMENSIONS | | | | | | | | WEIGHT | | |
|------------------|----------|---------|----------|---------|---------|--------|---------|---------|---------|----------|
| Full scale flow | Width | Depth | Height | Α | В | С | Е | F | G | |
| 10 20 55514 | 2.38" | 1.05" | 3.90" | 0.34" | 0.53" | 0.13" | 0.93" | 0.15" | 2.23" | ≈ 0.8 lb |
| 10 – 20 ѕссм | 60.3 mm | 26.7 mm | 99.0 mm | 8.5 mm | 13.3 mm | 3.2 mm | 23.5 mm | 3.8 mm | 56.5 mm | ≈ 0.4 kg |
| FO CCCM 2 CLDM | 2.38" | 1.05" | 4.07" | 0.35" | 0.53" | 0.13" | 0.93" | 0.15" | 2.23" | ≈ 1.0 lb |
| 50 SCCM – 2 SLPM | 60.3 mm | 26.7 mm | 103.3 mm | 8.9 mm | 13.3 mm | 3.2 mm | 23.5 mm | 3.8 mm | 56.5 mm | ≈ 0.5 kg |
| 5 | 2.38" | 1.05" | 4.17" | 0.35" | 0.53" | 0.13" | 0.93" | 0.15" | 2.23" | ≈ 1.4 lb |
| 5 SLPM | 60.3 mm | 26.7 mm | 105.8 mm | 8.9 mm | 13.3 mm | 3.2 mm | 23.5 mm | 3.8 mm | 56.5 mm | ≈ 0.6 kg |
| 10 SLPM | 2.63" | 1.05" | 4.21" | 0.36" | 0.53" | 0.13" | 0.93" | 0.28" | 2.35" | ≈ 2.4 lb |
| | 66.7 mm | 26.7 mm | 106.9 mm | 9.1 mm | 13.3 mm | 3.2 mm | 23.5 mm | 7.0 mm | 59.7 mm | ≈ 1.1 kg |
| 20 CL DM | 4.00" | 1.60" | 4.37" | 0.50" | 0.80" | 0.18" | 1.43" | 0.75" | 3.25" | ≈ 2.4 lb |
| 20 SLPM | 101.6 mm | 40.6 mm | 110.9 mm | 12.7 mm | 20.3 mm | 4.4 mm | 36.2 mm | 19.1 mm | 82.6 mm | ≈ 1.1 kg |
| 40 – 100 slpм - | 4.00" | 1.60" | 1.60" | 0.80" | 0.80" | 0.18" | 1.43" | 0.75" | 3.25" | ≈ 3.5 lb |
| | 101.6 mm | 40.6 mm | 40.6 mm | 20.3 mm | 20.3 mm | 4.4 mm | 36.2 mm | 19.1 mm | 82.6 mm | ≈ 1.5 kg |

250 SLPM full scale through **1000 SLPM** full scale

Standard specifications. Consult Alicat for available options.



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| SENSOR PERFORMANCE | | | | | | |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Mass flow accuracy ¹ | Standard accuracy: \pm 0.8% of reading and \pm 0.2% of full scale High accuracy (available for \leq 1000 SLPM models): \pm (0.4% of reading \pm 0.2% of full scale) | | | | | |
| Flow repeatability (2σ) | ± (0.2% of reading ± 0.02% of full scale) | | | | | |
| Pressure accuracy ¹ | Above 1 atm: ± 0.75% of reading Below 1 atm: ± 0.1 PSIA | | | | | |
| Flow measurement range | 0.01 – 100% of full scale | | | | | |
| Operating pressure range | 11.5 – 60 PSIA | | | | | |
| Pressure sensitivity | Mass flow zero shift and span shift: ± (0.08% of reading + 0.02% of full scale) per atmosphere from tare pressure | | | | | |
| Temperature sensitivity | Mass flow zero shift and span shift: 0.03% of full scale per °C from 25 °C | | | | | |
| Temperature accuracy | ±0.75°C | | | | | |
| Operating temperature range | -10-60°C | | | | | |
| Totalizer volume uncertainty | ± 0.5% of reading additional uncertainty | | | | | |
| Sensor response time | <1 ms | | | | | |
| Typical indication response time ² | 127 ms (user-adjustable) | | | | | |
| Typical warm-up time | <1s | | | | | |

¹ Stated accuracy is after tare (for mass flow), under equilibrium conditions, includes repeatability and linearity.

| MECHANICAL | | | | | |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Wetted materials | 302, 303 stainless steel; Viton®, glass-reinforced polyphenylene sulfide, alumina, glass, gold, silicon, heat-cured epoxy, heat-cured silicone rubber | | | | |
| Maximum pressure | Damage possible above 80 PSIA common mode pressure. Damage possible above 10 PSID differential pressure. | | | | |
| Relative humidity range | 0 – 95%, non-condensing | | | | |
| Ingress protection | IP40 (consult Alicat for weatherproofing options) | | | | |
| Mounting orientation sensitivity | None | | | | |
| Mounting holes | 250 – 500 slpm: 4× 8-32 UNC threaded ↓ 0.375″ [9.53 mm] 1000 slpm: 4× 8-32 UNC threaded ↓ 0.300″ [7.62 mm] | | | | |

| POWER AND COMMUNICATIONS | | | | | | |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Digital output options ² | RS-232 Serial and Modbus RTU (default), RS-485 Serial and Modbus RTU, Modbus TCP/IP, DeviceNet, EtherCAT, EtherNet/IP, PROFINET, PROFIBUS, IO-Link | | | | | |
| Digital data update rate ³ | 40 Hz at 19200 baud | | | | | |
| Analog output options | 4 – 20 mA, 0 – 5 Vdc, 1 – 5 Vdc, 0 – 10 Vdc | | | | | |
| Analog data update rate | 1 kHz | | | | | |
| Analog signal accuracy | ± 0.1% of full scale additional uncertainty | | | | | |
| Interactive display | Monochrome LCD or color TFT display with integrated touchpad; simultaneously displays mass flow, volumetric flow, temperature, and pressure. | | | | | |
| Display update rate | 10 Hz | | | | | |
| Electrical connection options ² | 6-pin locking, 8-pin mini-DIN, 8-pin M12, 9-pin DB-9, 15-pin DB-15 | | | | | |
| Power requirements ^{2,3} | 0–5 Vdc output: 9–24 Vdc, 40 mA 0–10 Vdc output: 12–28 Vdc, 40 mA 4–20 mA output: 12–28 Vdc, 80 mA | | | | | |

² See Portable Devices table for MWB-Series specifications and options.

³ Consult the individual operating bulletins for specific industrial protocol power requirements and data transmission specifications.

250 SLPM full scale through **1000 SLPM** full scale

Standard specifications. Consult Alicat for available options.



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| FEATURES | | | | | |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| STP reference conditions 25 °C and 1 atm (default), user-configurable | | | | | |
| NTP reference conditions 0 °C and 1 atm (default), user-configurable | | | | | |
| Gas Select™ | 98 user selectable gases stored internally. Each gas optimized to match NIST's REFPROP 10 gas property calculations across the operating temperature and pressure ranges for highest accuracy. | | | | |
| COMPOSER™ | 20 user-definable gas mixes. Each mix may have up to 5 gases with 0.01% composition resolution. | | | | |

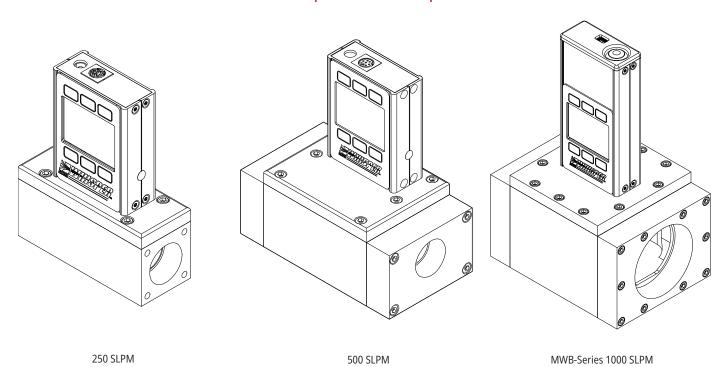
| RANGE-SPECIFIC TECHNICAL DATA | | | | | | | |
|-------------------------------------------------------------------------------------------------|-----------|---------------|--|--|--|--|--|
| Full scale flow Pressure drop at full scale flow venting air to atmosphere Default process conr | | | | | | | |
| 250 SLPM | 0.60 PSID | ¾" NPT Female | | | | | |
| 500 SLPM | 0.39 PSID | ¾″ NPT Female | | | | | |
| 1000 SLPM | 0.24 PSID | 2″ NPT Female | | | | | |

⁴ Consult Alicat for available process connection options, such as: Compression, face seal, push-to-connect, BSPP, SAE, or Swagelok®-compatible (including tube, VCO®, and VCR®).

| PORTABLE DEVICES (MWB-SERIES) ⁵ | | | | | |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Power requirements | 5 Vdc, 1 A recommended via an outlet adapter to USB | | | | |
| Battery life | Monochrome screen: 18 hours, user-configurable, contrast dependent Color TFT screen: 8 hours, user-configurable, contrast dependent | | | | |
| Electrical connection and communication | Digital output: Serial over Micro-USB Power over Micro-USB Type B Bluetooth® Low Energy (requires the Alicat Connect app and a compatible Android or iOS mobile device) | | | | |
| Charging temperature | 0 – 45 °C | | | | |
| Dimensions | Portable devices (MWB-Series) add 1.646" [41.81 mm] to height, and 0.2 lb. [90.72 g] to weight | | | | |

⁵ More information about our MWB-Series portable mass flow meters at alicat.com/mwb.

Representative Examples



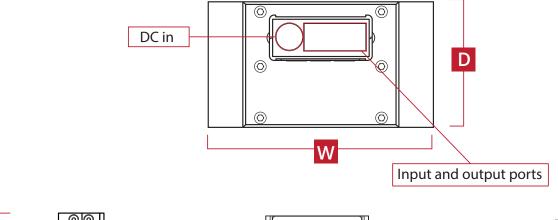
2/3

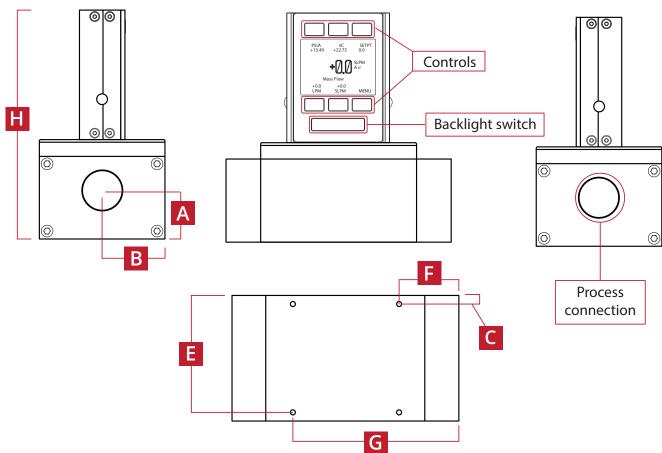
250 SLPM full scale through **1000 SLPM** full scale

Standard specifications. Consult Alicat for available options.









| DIMENSIONS | | | | | | | | WEIGHT | | |
|-----------------|----------|---------|----------|---------|---------|--------|---------|---------|---------|-----------|
| Full scale flow | Width | Depth | Height | А | В | С | E | F | G | |
| 250 SLPM | 4.00" | 1.60″ | 4.97" | 0.80" | 0.80" | 0.18" | 1.43" | 0.75″ | 3.25" | ≈ 3.5 lb |
| | 101.6 mm | 40.6 mm | 126.2 mm | 20.3 mm | 20.3 mm | 4.4 mm | 36.2 mm | 19.1 mm | 82.6 mm | ≈ 1.5 kg |
| 500 SLPM | 5.20″ | 2.90″ | 5.29" | 1.45″ | 1.45" | 0.20" | 2.70" | 1.35″ | 3.85" | ≈ 4.5 lb |
| | 132.1 mm | 73.7 mm | 134.3 mm | 36.8 mm | 36.8 mm | 5.1 mm | 68.6 mm | 34.3 mm | 97.8 mm | ≈ 2.0 kg |
| 1000 SLPM - | 5.20″ | 3.84" | 6.27" | 1.45″ | 1.92″ | 0.30" | 3.55″ | 1.35″ | 3.85" | ≈ 14.0 lb |
| | 132.1 mm | 97.5 mm | 159.2 mm | 36.8 mm | 48.8 mm | 7.5 mm | 90.0 mm | 34.3 mm | 97.8 mm | ≈ 6.4 kg |