

Technical Data for CODA-Series Mass Flow Meters and Controllers

100 to 10,000 grams per hour full scale



Standard specifications. Consult Alicat for available options.

+1 (888) 290-6060
alicat.com/coda

SENSOR AND CONTROL PERFORMANCE	
Full Scale Flow Rate Options ¹	100 g/h, 1000 g/h, 10,000 g/h
Flow Accuracy	Liquid: $\pm 0.2\%$ of reading or $\pm 0.05\%$ of full scale, whichever is greater Gas: $\pm 0.5\%$ of reading or $\pm 0.05\%$ of full scale, whichever is greater
Repeatability	$\pm 0.05\%$ of reading or $\pm 0.025\%$ of full scale, whichever is greater
Minimum Measurable Flow	0.2% of full scale
Density Accuracy ²	± 5 kg/m ³
Viscosity Range	0–200 cP
Zero Stability	$\pm 0.05\%$ of full scale (included in the flow accuracy specification)
Temperature Sensitivity	Mass flow zero shift: $\pm 0.01\%$ of full scale per °C from tare temperature Mass flow span shift: $\pm 0.005\%$ of reading per °C from 25°C
Valve Function	Normally Closed
Typical Control Response Time	<500 ms (T98)
Typical Indication Response Time	<100 ms (T98)

1 Full scale flow range is defined at 15 PSID (water), and correlates with the full scale analog signal. Increased pressure can achieve higher flow rates, available via digital communication.

2 Density readings are limited to a range of 100–2000 kg/m³. Density readings and accuracy statements are independent of the mass flow reading and mass flow accuracy.

MECHANICAL	
Maximum Operating Pressure (Proof)	100–1000 g/h: 1500 PSIA 10000 g/h: 1000 PSIA 4000 PSIA option is available for all ranges
Operating Temperature Range	Ambient: 0–60°C Fluid: –30–105°C
Ingress Protection	IP40 (IP67 optional, M12 required)
Wetted Materials ³	FKM, 316L
Process Connections	¼" VCR Male
Inlet Filter Recommended	Meter: 20 microns Controller: 1 micron

3 Other wetted materials such as Hastelloy, all-metal seals, FFKM, or EPDM available. Please contact Alicat.

COMMUNICATIONS	
Analog I/O Options	0–5 Vdc, 0–10 Vdc, 4–20 mA
Digital I/O Options	Modbus RTU (over RS-232 or RS-485)
Electrical Connector Options	DB-15 with USB-C (default), M12 (IP67 only)
Power Requirements	Meter: 1.4 watts, 5–30 Vdc (58 mA at 24 Vdc) via USB-C or DB15/M12 Controller: 4 watts, 12–30 Vdc (167 mA at 24 Vdc) via DB15/M12 only
Digital Update Rate	50 Hz at 19200 baud
Analog Update Rate	50 Hz

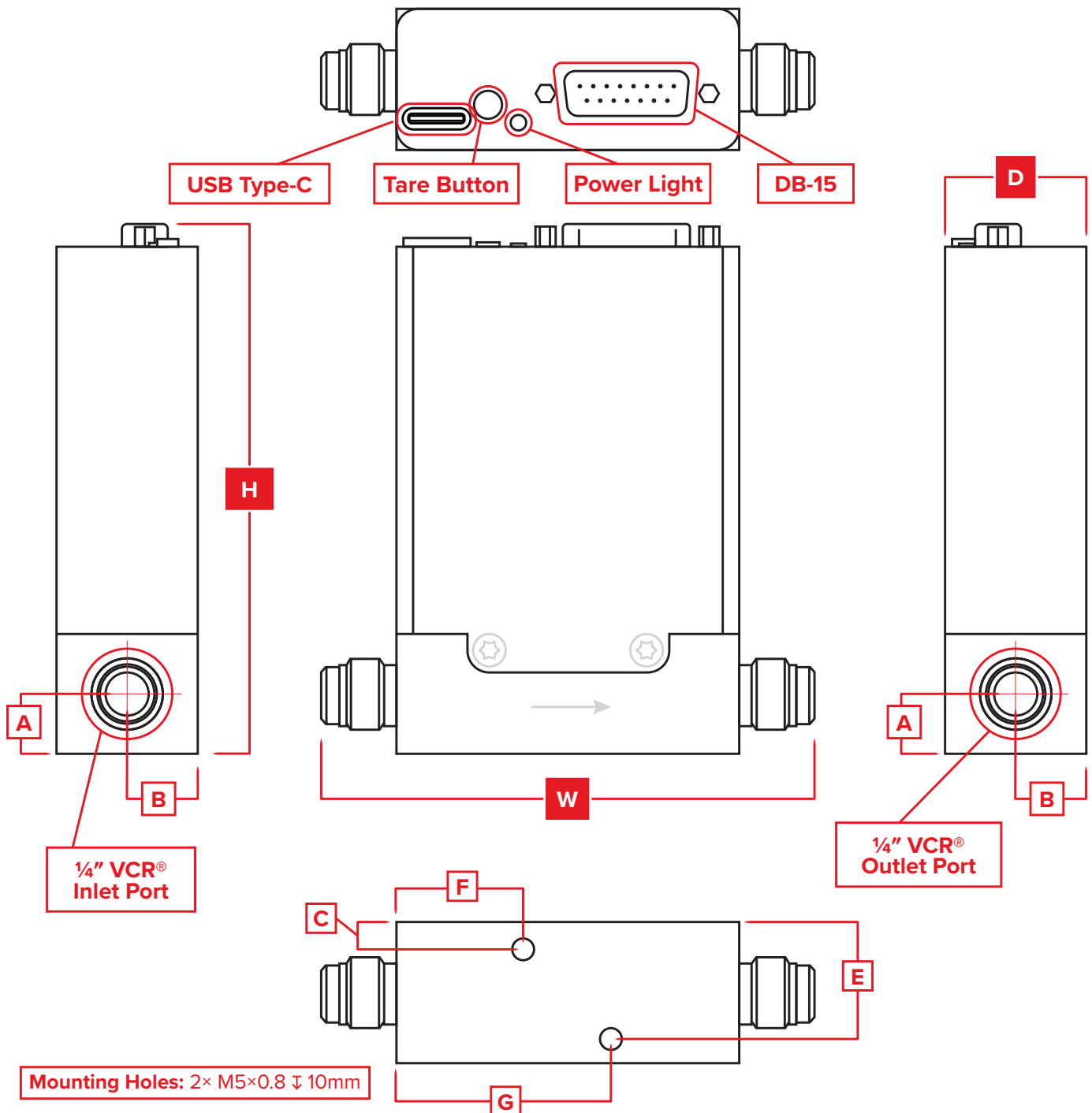
Technical Data for CODA-Series Mass Flow Meters and Controllers

100 to 10,000 grams per hour full scale



Standard specifications. Consult Alicat for available options.

+1 (888) 290-6060
alicat.com/coda



DIMENSIONS										WEIGHT
Type	Height	Width	Depth	A	B	C	E	F	G	
Meter	4.240 in	3.937 in	1.122 in	0.472 in	0.561 in	0.207 in	0.915 in	1.024 in	1.732 in	≈ 1.5 lb
	107.70 mm	100.00 mm	28.50 mm	11.99 mm	14.25 mm	5.26 mm	23.24 mm	26.01 mm	43.99 mm	≈ 0.7 kg

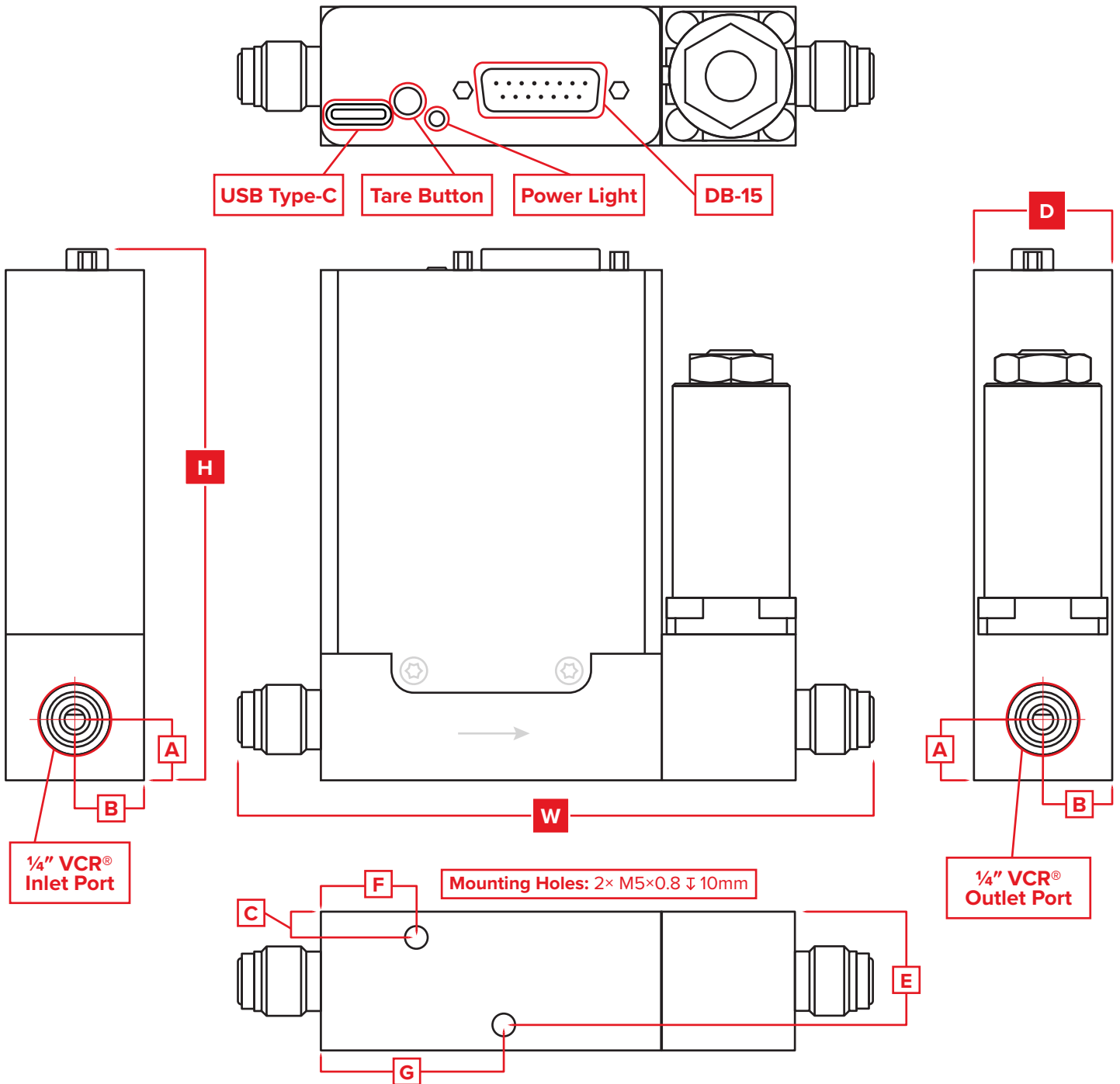
Technical Data for CODA-Series Mass Flow Meters and Controllers

100 to 10,000 grams per hour full scale



Standard specifications. Consult Alicat for available options.

+1 (888) 290-6060
alicat.com/coda



DIMENSIONS										WEIGHT
Type	Height	Width	Depth	A	B	C	E	F	G	
Controller	4.631 in	5.138 in	1.122 in	0.472 in	0.561 in	0.207 in	0.915 in	1.024 in	1.732 in	≈ 2.0 lb
	117.63 mm	130.51 mm	28.50 mm	11.99 mm	14.25 mm	5.26 mm	23.24 mm	26.01 mm	43.99 mm	≈ 0.9 kg