Technical Data for CODA KMO-Series Mass Flow Meters

40 to **100,000** grams per hour full scale

Standard specifications. Consult Alicat for available options.

ALICAT SCIENTIFIC
+1 (888) 290-6060
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SENSOR AND CONTROL PERFORMANCE	
Flow Accuracy	**Liquid:** ±0.6% of reading or ±0.2% of full scale, whichever is greater **Gas:** ±1% of reading or ±0.2% of full scale, whichever is greater
Repeatability	±0.1% of full scale
Flow Measurement Range	1–100% of full scale
Density Accuracy[1]	±5 kg/m^3
Density Range (Measurable)	100–2,000 kg/m^3
Viscosity Range	0–200 cP
Zero Stability	±0.2% of full scale (included in mass flow accuracy)
Temperature Sensitivity	**Mass flow zero shift:** ±0.02% of full scale per °C from tare temperature[2] **Mass flow span shift:** ±0.01% of reading per °C from 25°C
Typical Indication Response Time	**40 g/h–10,000 g/h:** <100 ms (T98) **30,000 g/h–100,000 g/h:** <200 ms (T98)

1 Density reading and density accuracy are independent of the mass flow reading and mass flow accuracy.

2 Mass flow zero shift for 40 g/h is ±0.025% of full scale per °C from tare temperature.

MECHANICAL	
Operating Temperature Range	**Ambient:** 0–60°C **Fluid:** −35–70°C Consult Alicat for additional options
Ingress Protection	IP40 or IP67
Wetted Materials	316L stainless steel and FKM standard; FFKM, EPDM or PCTFE optional Consult Alicat for additional wetted materials options

COMMUNICATIONS	
Analog I/O Options	0–5 Vdc, 0–10 Vdc, 4–20 mA
Digital I/O Options	Serial and Modbus RTU over RS-232 or RS-485 (default) EtherCAT, EtherNet/IP
Electrical Connection Options	USB-C and DB-15 (default) M12 (IP rated models) RJ45 (Ethernet equipped models)
Power Requirements	Powered through DB-15 or M12: 1.4 W, 9–30 Vdc (can also be powered via USB-C)
Digital Update Rate	50 Hz at 19200 baud
Analog Update Rate	50 Hz

RANGE-SPECIFIC TECHNICAL DATA

Full scale flow (g/h)	Process connections	Recommended inlet filter	Nominal pressure drop (H_2O)	Proof Pressure (PSIA)[3]	Mounting Options
40	¼" VCR®-compatible male	2 µm	≥6 PSID	200	2× M5-0.8 × 10 mm
100–1000	¼" VCR®-compatible male	2 µm	≥15 PSID	1500	2× M5-0.8 × 10 mm
3000–10,000	¼" VCR®-compatible male	40 µm	≥15 PSID	1500	2× M5-0.8 × 10 mm
30,000–100,000	¼" VCR®-compatible male	120 µm	≥15 PSID	1500	2× M5-0.8 × 10 mm

3 4000 PSIA proof option available for ranges ≥100 g/h.

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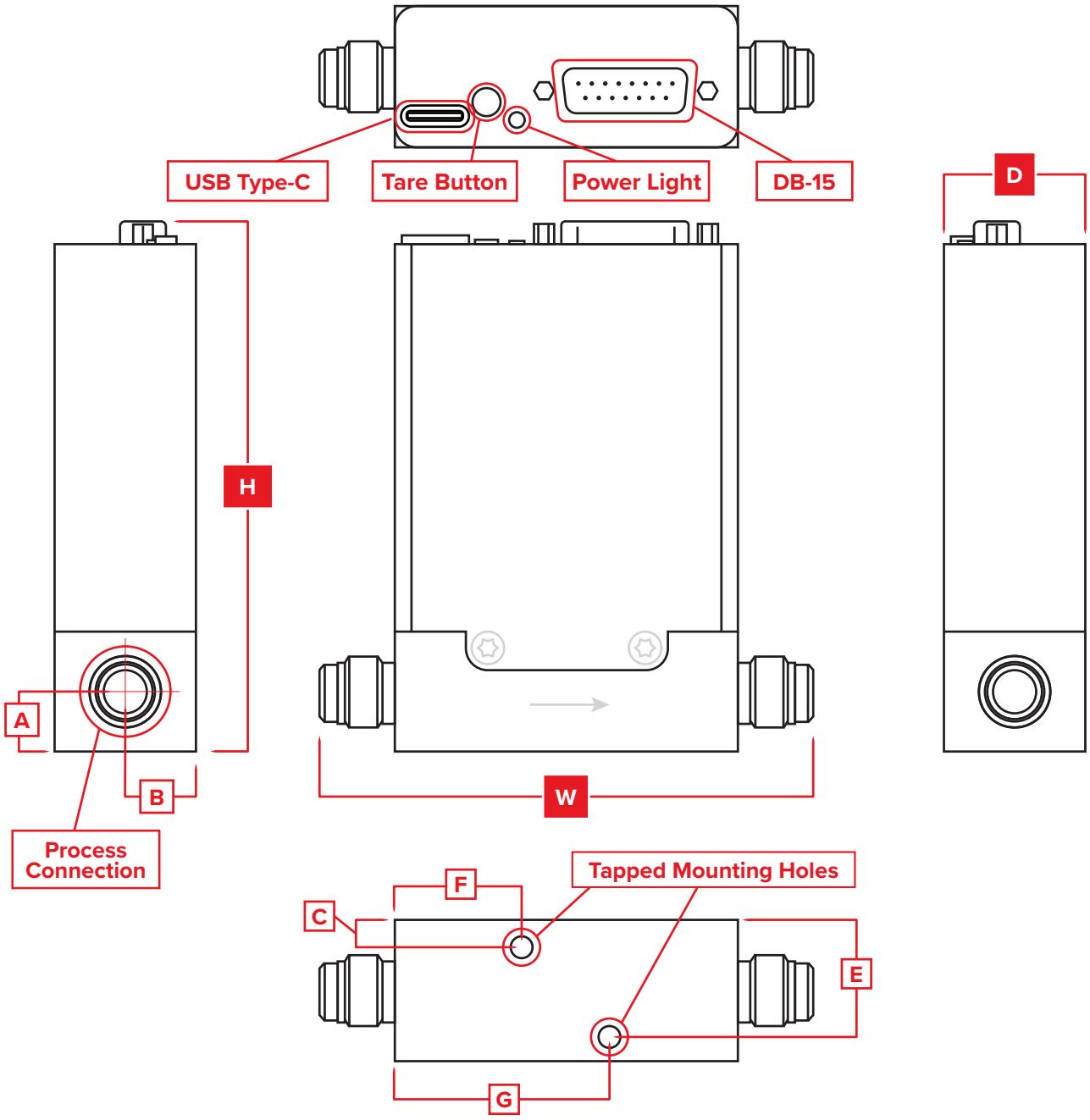

DIMENSIONS										WEIGHT
Full scale flow	Height	Width	Depth	A	B	C	E	F	G	
40–10,000 g/h	4.240 in	4.016 in	1.122 in	0.492 in	0.561 in	0.207 in	0.915 in	1.024 in	1.732 in	≈ 1.5 lb
	107.70 mm	102.01 mm	28.50 mm	12.50 mm	14.25 mm	5.26 mm	23.24 mm	26.01 mm	43.99 mm	≈ 0.7 kg
30,000–100,000 g/h	5.301 in	4.390 in	1.575 in	0.630 in	0.787 in	0.434 in	1.141 in	1.211 in	1.919 in	≈ 2.5 lb
	134.65 mm	111.51 mm	40.01 mm	16.00 mm	19.99 mm	11.02 mm	28.98 mm	30.76 mm	48.74 mm	≈ 1.1 kg