

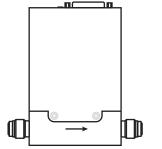
Pressure Ranges up to 4,000 PSIA High precision at flow as low as 0.08 g/h Incredibly accurate at up to  $\pm 0.2\%$  of reading

Accurate measurement with changing fluids

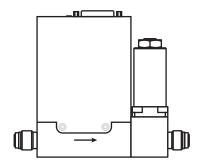


# Robust Coriolis Instruments

alicat.com/coda



KM-100 CODA-Series Flow Meter



KC-100 CODA-Series Flow Controller

#### Quick Specifications:

Pressure Ranges: Up to 4000 psia

**Operating Ranges:** 0.08 g/h to 100,000 g/h

#### Liquid Accuracy:

 $\pm 0.2\%$  of reading, or  $\pm 0.05\%$  of full scale, whichever is greater

#### Gas Accuracy:

 $\pm 0.5\%$  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

Analog Outputs: 0–5 Vdc, 0–10 Vdc, or 4–20 mA

Digital Communications: RS-232 or RS-485 serial, Modbus RTU, EtherCAT, EtherNet/IP

Process Connections: 1/4" VCR® Male, 1/4" compression

## **Accuracy and Flexibility**

Some of CODA's many applications:



#### Dosing

Whether it's in catalytic research or food production, precision dosing of an additive is critical. Ultra-low flow capabilities make our coriolis-based devices ideal for measurement and control of components.



#### **High-Pressure Operation**

Fuel cell and rocket research place extreme demands on instrumentation. Coriolis devices accurately measure fluids at 4000 PSI, ensuring that your mission-critical projects work on the ground, in the air, and beyond.



### Variable Systems

When fluid composition isn't known in a process, accurate measurement is still critical. Coriolis meters allow flexibility in changing environments, such as in bioreactors, variable fluid mixtures, or measuring the outflow in chemical processes.



### Aggressive Fluids

From chemical coating to semiconductors, aggressive fluids pose materials compatibility challenges to many fluid control systems in manufacturing. CODA Coriolis mass flow systems utilize minimal wetted materials, making them more resistant to corrosive fluid environments.

Example Model	Туре	Full Scale Range*			
KM-40	Meter	40 g/h			
KC-3K	Controller	3,000 g/h			
KC-100K	Controller	100,000 g/h			

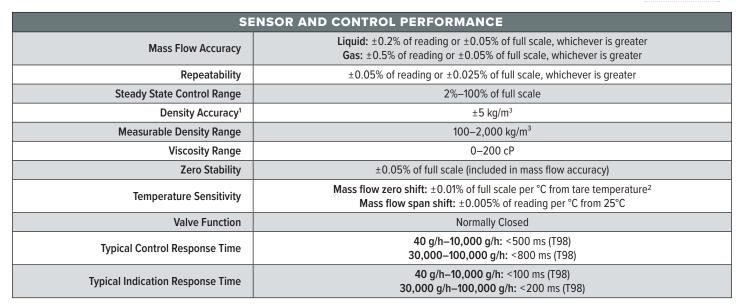
\*Full scale flow range is defined at 15 PSID (water)



## **Technical Data for CODA-Series Mass Flow Controllers**

40 to 100,000 grams per hour full scale

Standard specifications. Consult Alicat for available options.



**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  $\pm 0.025\%$  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, FKM & FFKM standard; 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 (USB-C); RS-232 or RS-485 (DB-15 or M12) Modbus RTU, EtherCAT, EtherNet/IP				
Power Requirements	Powered through DB-15 or M12: <b>40–10,000 g/h:</b> 4 W, 9–30 Vdc <b>30,000–100,000 g/h:</b> 5 W, 9–30 Vdc				
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 <sub>2</sub> 0)	Proof Pressure (PSIA) <sup>3</sup>	Mounting Options	
40	¼″ VCR®-compatible male	2μ	≥6 PSID	200	2× M5-0.8 × 10 mm	
100–1000	¼″ VCR®-compatible male	2μ	≥15 psid	1500	2× M5-0.8 × 10 mm	
3000–10,000	¼″ VCR®-compatible male	40μ	≥15 psid	1500	2× M5-0.8 × 10 mm	
30,000–100,000	1⁄4" VCR®-compatible male	120µ	≥15 psid	1500	2× M5-0.8 × 10 mm	

**3** 4000 PSIA proof option available for ranges  $\geq$ 100 g/h.

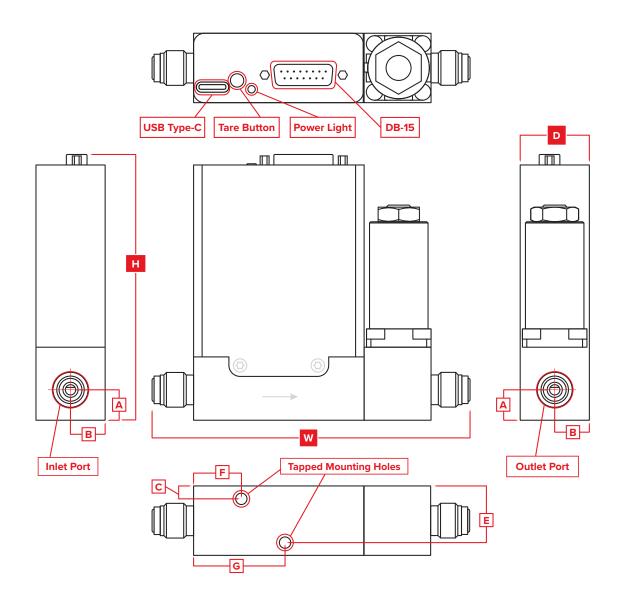


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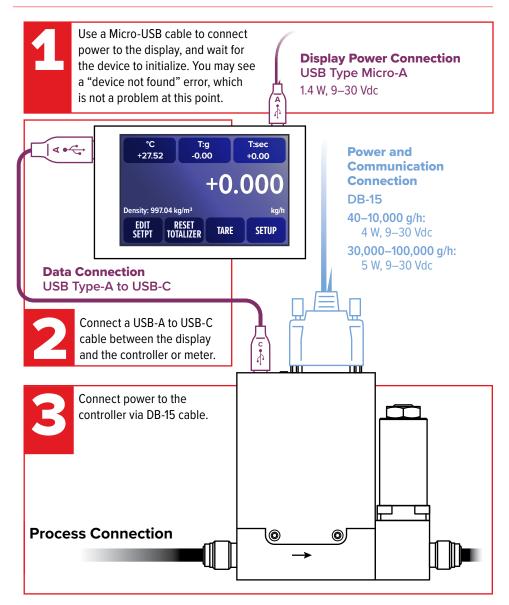
DIMENSIONS							WEIGHT			
Full Scale Flow	Height	Width	Depth	А	В	С	E	F	G	
40–10,000 g/h	4.318 in	5.138 in	1.122 in	0.492 in	0.561 in	0.207 in	0.915 in	1.024 in	1.732 in	≈ 2.0 lb
	109.68 mm	130.51 mm	28.50 mm	12.50 mm	14.25 mm	5.26 mm	23.24 mm	26.01 mm	43.99 mm	≈ 0.9 kg
30,000– 100,000 g/h	5.304 in	5.945 in	1.575 in	0.630 in	0.787 in	0.434 in	1.141 in	1.211 in	1.919 in	≈ 3.0 lb
	134.72 mm	151.00 mm	40.01 mm	16.00 mm	19.99 mm	11.02 mm	28.98 mm	30.76 mm	48.73 mm	≈ 1.4 kg

## **CODA Touchscreen Interface**

**Quick Start Guide: Controllers** 



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## Download the full manual: alicat.com/coda

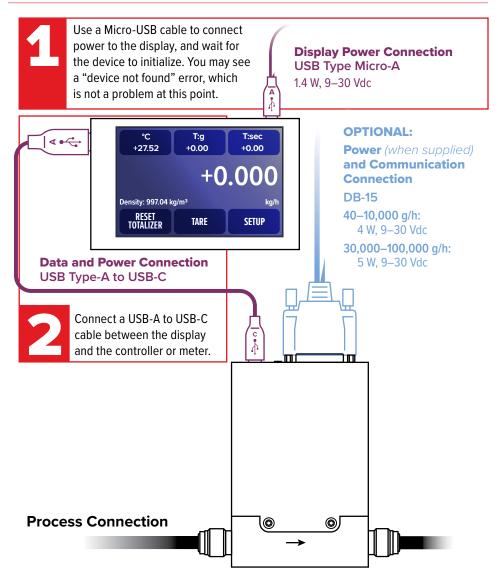
Troubleshooting • Questions: +1 520-290-6060 • info@alicat.com • Live web chat at alicat.com

## **CODA Touchscreen Interface**

**Quick Start Guide: Meters** 



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