Technical Data for CODA KG-Series Mass Flow Pump Systems 1 KILOGRAM PER HOUR full scale to 100 KILOGRAMS PER HOUR full scale



Standard specifications. Consult Alicat for available options.

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

SENSOR AND CONTROL PERFORMANCE							
Mass flow accuracy ¹	Liquid: $\pm 0.6\%$ of reading or $\pm 0.2\%$ of full scale, whichever is greater Gas: $\pm 1\%$ of reading or $\pm 0.2\%$ of full scale, whichever is greater Liquid with high-accuracy option: $\pm 0.2\%$ of reading or $\pm 0.05\%$ of full scale, whichever is greater Gas with high-accuracy option: $\pm 0.5\%$ of reading or $\pm 0.05\%$ of full scale, whichever is greater						
Flow repeatability (2σ)	$\pm 0.1\%$ of full scale High-accuracy option: $\pm 0.05\%$ of reading or $\pm 0.025\%$ of full scale, whichever is greater						
Steady state control range	5–100% of full scale High-accuracy option: 2–100% of full scale						
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 High-accuracy option mass flow zero shift: ±0.01% of full scale per °C from tare temperature ² High-accuracy option mass flow span shift: ±0.005% of reading per °C from 25°C						
Operating temperature range	−35−70°C						
Ambient temperature range	0–60°C Consult Alicat for additional options						
Pump type	Gear						
Typical control response time	1,000–10,000 g/h: <1500 ms (T63) 30,000–100,000 g/h: <1500 ms (T63)						
Typical indication response time	1,000–10,000 g/h: <40 ms (T63) 30,000–100,000 g/h: <60 ms (T63)						
Typical warm-up time	15 minutes						
Density accuracy ¹	±5 kg/m³						
Density range	100–2,000 kg/m³ measureable						
Viscosity range	0-200 cP						
Zero stability	±0.2% of full scale (included in mass flow accuracy) High-accuracy option : ±0.05% of full scale (included in mass flow accuracy)						

¹ Stated accuracy is after tare, under equilibrium conditions, includes repeatability and linearity.

² Density reading and density accuracy are independent of the mass flow reading and mass flow accuracy.

MECHANICAL							
Wetted materials	316L stainless steel, PEEK, Teflon, and FKM standard; nickel alloy and FFKM optional Consult Alicat for additional wetted materials options						
Ingress protection	IP40						
Maximum inlet pressure	Pump dependent. See device calibration sheet.						
Mounting orientation sensitivity	None						
Mounting holes	2× M5-0.8 threaded, ₮ 0.39″ [10 mm]						

POWER AND COMMUNICATION							
Digital input and output options	ASCII and Modbus RTU, over RS-232 or RS-485, EtherCAT, EtherNet/IP, PROFINET						
Digital update rate	50 Hz at 19200 baud						
Analog input and output options	0–5 Vdc, 0–10 Vdc, 4–20 mA						
Analog update rate	50 Hz						
Interactive display	Monochrome LCD display with integrated touchpad; simultaneously displays mass flow, volumetric flow, density, and temperature. Also available without display.						
Electrical connection options	USB-C and DB-15, M12, RJ45 (industrial protocol models)						
Power requirements ³	Powered through DB-15, M12, or power jack (industrial protocol models) 39.7 W, 10–30 Vdc						

3 Subtract 1.7W for devices with no integrated display.

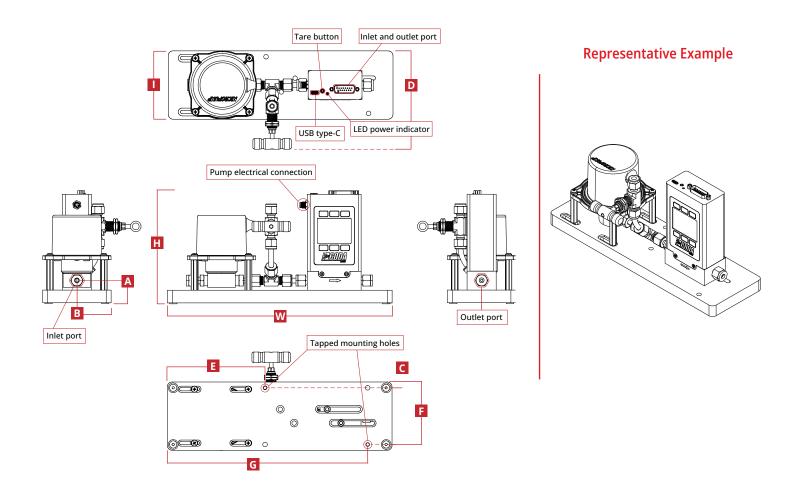
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DIMENSIONS									WEIGHT		
Full scale flow	Width	Depth	Height	A	В	С	E	F	G	I	
1000-10,000 g/h	11.50″	5.03"	5.74"	1.14″	1.75″	0.30"	5.00″	3.20″	10.25″	3.50″	≈ 13.0 lb
	292.1 mm	127.8 mm	145.8 mm	29.0 mm	44.5 mm	7.6 mm	127.0 mm	81.3 mm	260.4 mm	88.9 mm	≈ 5.9 kg
30,000-100,000 g/h	11.50″	5.57"	6.84"	1.28″	1.75″	0.30"	5.00″	3.20″	10.25″	3.50″	≈ 15.1 lb
	292.1 mm	141.6 mm	173.8 mm	32.5 mm	44.4 mm	7.6 mm	127.0 mm	81.3 mm	260.4 mm	88.9 mm	≈ 6.8 kg

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