

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 | Gas: $\pm 0.5\%$ of reading or $\pm 0.05\%$ of full scale, whichever is greater Liquid: $\pm 0.2\%$ of reading or $\pm 0.05\%$ of full scale, whichever is greater |
| Flow repeatability (2 σ) | $\pm 0.05\%$ of reading or $\pm 0.025\%$ of full scale, whichever is greater |
| Steady state control range | 2–100% of full scale |
| 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 |
| Operating temperature range | –35–70°C |
| Ambient temperature range | 0–60°C Consult Alicat for additional options |
| Pump type | Gear |
| Typical control response time | 1–10 kg/h: <1500 ms (T63) 30–100 kg/h: <1500 ms (T63) |
| Typical indication response time | 1–10 kg/h: <40 ms (T63) 30–100 kg/h: <60 ms (T63) |
| Typical warm-up time | 15 minutes |
| Density accuracy ² | ± 5 kg/m ³ |
| Density range | 100–2,000 kg/m ³ measureable |
| Viscosity range | 0–200 cP |
| Zero stability | $\pm 0.05\%$ 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, 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, \downarrow 0.39" [10 mm] |

| POWER AND COMMUNICATION | |
|----------------------------------|---|
| Digital input and output options | ASCII and Modbus RTU, over RS-232 or RS-485 |
| 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 |
| Electrical connection options | USB-C and DB-15, M12 |
| Power requirements | Powered through DB-15 or M12 38 W, 10–30 Vdc |

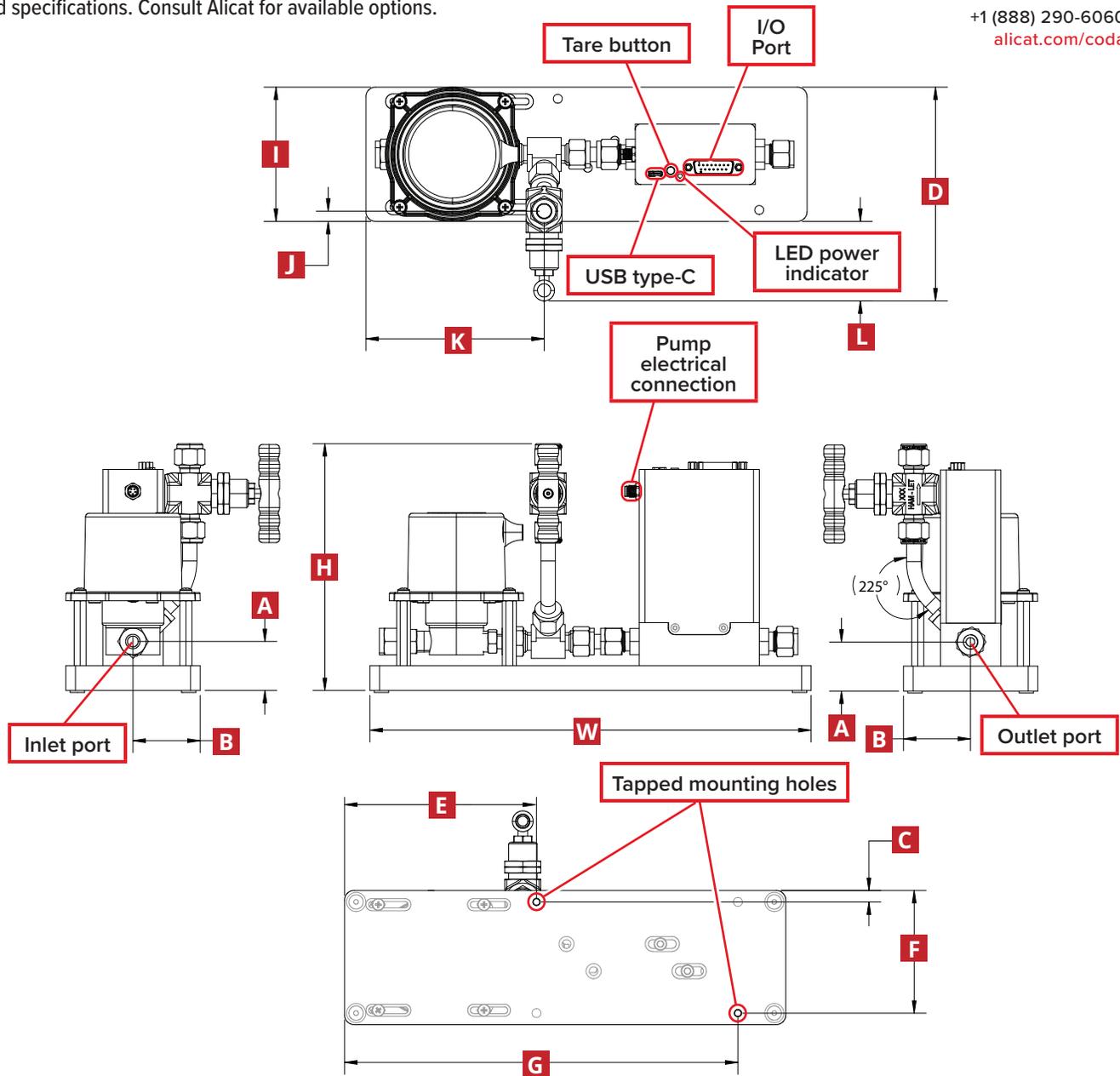
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| DIMENSIONS | | | | | | | | |
|-----------------|----------|----------|----------|---------|---------|--------|----------|---------|
| Full scale flow | Width | Depth | Height | A | B | C | E | F |
| 1–10 kg/h | 11.50" | 5.83" | 6.28" | 1.14" | 1.75" | 0.30" | 5.00" | 3.20" |
| | 292.1 mm | 148.0 mm | 159.4 mm | 29.0 mm | 44.5 mm | 7.6 mm | 127.0 mm | 81.3 mm |
| 30–100 kg/h | 11.50" | 5.57" | 6.44" | 1.28" | 1.75" | 0.30" | 5.00" | 3.20" |
| | 292.1 mm | 141.6 mm | 163.4 mm | 32.5 mm | 44.4 mm | 7.6 mm | 127.0 mm | 81.3 mm |

| | | | | | | WEIGHT |
|-----------------|----------|---------|---------|----------|---------|-----------|
| Full scale flow | G | I | J | K | L | |
| 1–10 kg/h | 10.25" | 3.50" | 1.25" | 5.31" | 2.33" | ≈ 12.0 lb |
| | 260.4 mm | 88.9 mm | 31.8 mm | 88.9 mm | 59.2 mm | ≈ 5.4 kg |
| 30–100 kg/h | 10.25" | 3.50" | 0.27" | 4.64" | 2.07" | ≈ 13.4 lb |
| | 260.4 mm | 88.9 mm | 6.8 mm | 118.0 mm | 52.7 mm | ≈ 6.1 kg |