

TCM0650 Coriolis Mass Flow Meter

EXTREME ACCURACY MASS FLOW MEASUREMENT



Specifications

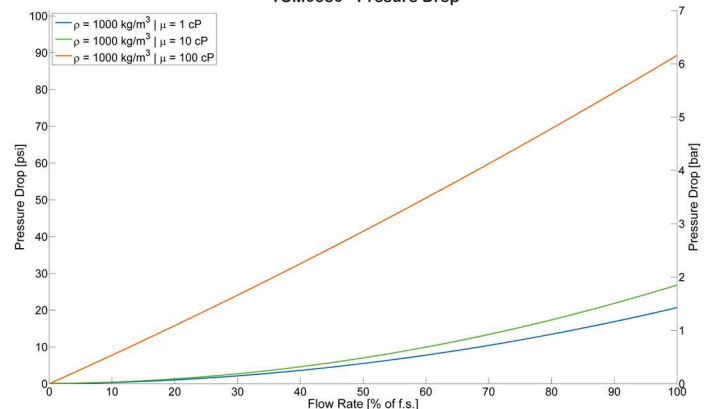
Performance

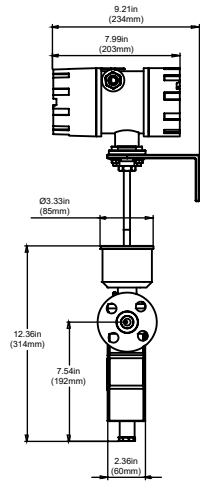
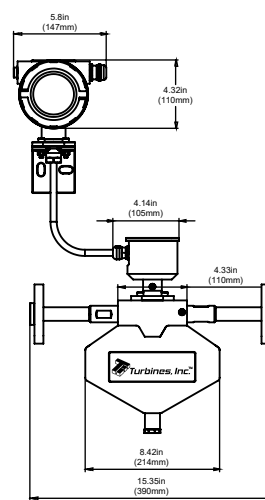
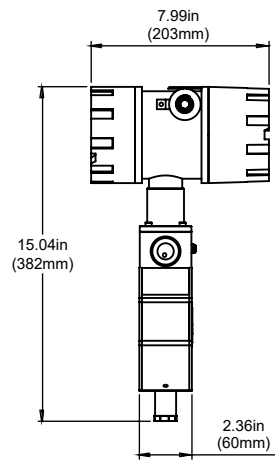
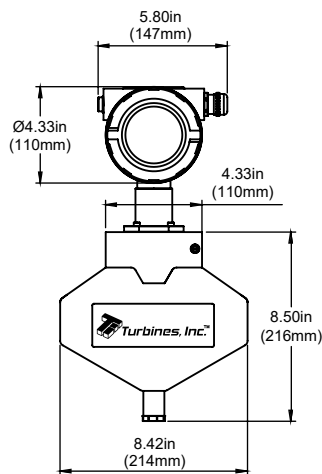
Linearity	±0.1 % of flow rate (Liquids) ±0.5% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) ±0.25% of flow rate (Gases)
Process Temperature Range	Standard: -40° F to 212° F (-40°C to 100°C) Optional: -76° F to 392° F (-60°C to 200°C)
Pressure Rating	2,900 psi 200 bar
Temperature Accuracy	±1.8° F ±0.5% of reading ±1.0°C ±0.5% of reading
Temperature Repeatability	±0.36° F ±0.2°C
Calibration	5-point logarithmic calibration
Standard Process Connection	Female thread 0.5" NPT
Zero Stability	±0.01 % of full scale
Density Range	up to 2,500 kg/m3 (2.5 g/cm3)
Max Flow Rate	650 kg/hr 24 lbs/min 650 l/hr 2.86 gpm 98 bbl/d (US)
Nominal Line Size	1/8" DN4 mm

Materials

Tubes	316L Stainless steel (DNI 1.4404)
Case	316L Stainless steel (DNI 1.4404)
Flow Splitter	316L Stainless steel (DNI 1.4404)
Brazing Alloy	BNi-2

TCM0650 - Pressure Drop





Compact Model

(with meter mount in aluminum diecast housing)
Weight: 15.4 lb (7 kg)

Remote Model

(with junction box and remote field mount transmitter)
Weight: 18.3 lb 8.3kg)

Certifications

CSA*	Compact: Cl. I, Div. 1: Groups C & D: T4 (US, Can) Ex db ia IIC T4 Gb (Can) Cl. I, Zone 1, AEx db ia IIC T4 Gb Remote: Sensor: Cl. I, Div. 1, Groups C & D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can) Cl. I, Zone 0, AEx ia IIC T4...T2 Ga (US) Transmitter: Cl. I, Div. 1, Groups C & D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can) Cl. I, Zone 1, AEx db [ia Ga] IIC T4 Gb (US)
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ATEX	Zone 1: Compact: II 2G Ex db ia IIC T4 Gb Remote: Sensor: II 1G Ex ia IIC T4...T2 Ga Transmitter: II 2(1)G Ex db [ia Ga] IIC T4 Gb Zone 2 (All): II 3G Ex nA IIC T4 Gc
IECEX	Compact: Ex db ia IIC T4 Gb Remote: Sensor: Ex ia IIC T4...T2 Ga Transmitter: Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2...T4
KGS (Korean)	Compact: Ex d (ai) IIC T4 Remote: Sensor: Ex ia IIC T4 Transmitter: Ex d (ia) IIC T4

Electronics

Power Supply 24 V DC $\pm 20\%$ or 90 ... 264 V AC
 Outputs Analog, Frequency, Pulse, Status
 Interfaces RS485 RTU (Modbus), HART®
 Cable Gland M20 | 1/2" NPT

Service

Our dedicated staff offers complete support and recertification for flow meters — whether our own or a competitor's brand. Our calibration services are performed by our trained technicians using the latest testing equipment.

Turbines, Inc. maintains extensive inventories in multiple locations to facilitate rapid, industry leading deliveries.

Worldwide Support

We serve customers globally with offices in Altus, OK; Seneca, SC; Odessa, TX; Cranston, RI; and Edmonton, Alberta, Canada.



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