

TCM7900 Coriolis Mass Flow Meter

EXTREME ACCURACY MASS FLOW MEASUREMENT



Specifications

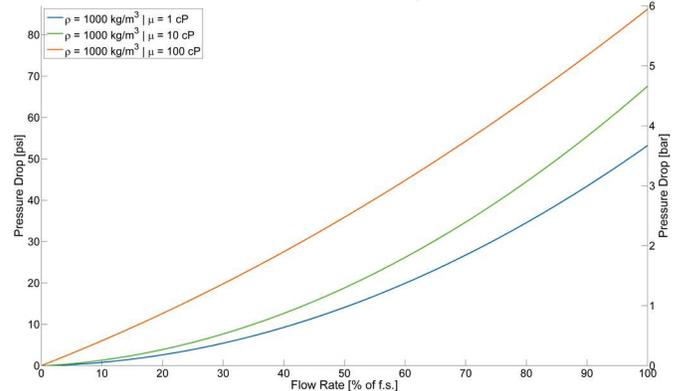
Performance

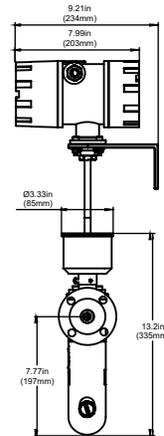
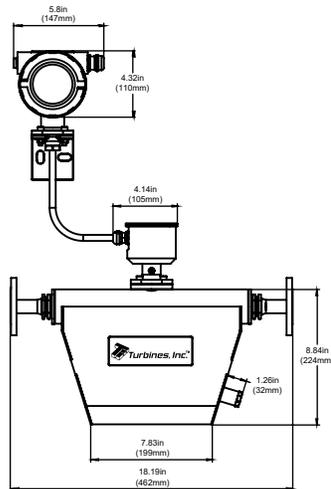
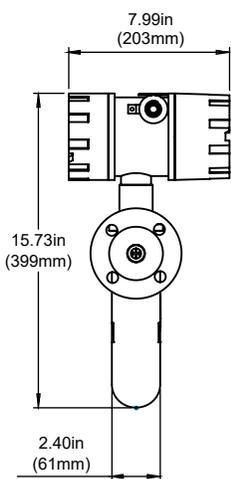
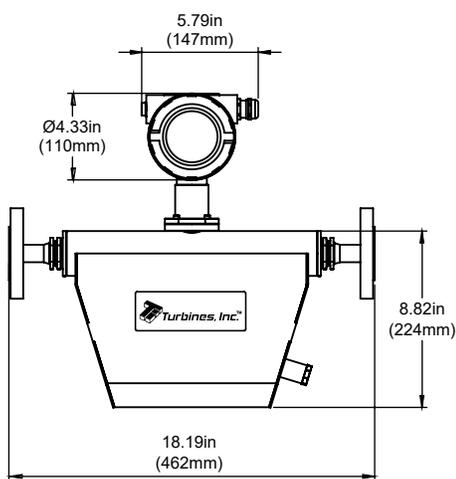
Linearity	±0.1% of flow rate (Liquids) ±0.5% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) ±0.25% of flow rate (Gases)
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C) Optional: -76°F to 392°F (-60°C to 200°C)
Pressure Rating	1450 psi 100 bar
Temperature Accuracy	±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	1/2" to 1" 150lb to 900lb ANSI flanges (consult factory for additional flange options)
Zero Stability	±0.01% of full scale
Density Range	up to 2,500 kg/m ³ (2.5 g/cm ³)
Max Flow Rate	7900 kg/hr 290 lbs/min 7900 l/hr 34.78 gpm 1,193 bbl/d (US)
Nominal Meter Size	1/2" DN15 mm

Materials

Tubes	316L Stainless steel (DIN 1.4404)
Case	316L Stainless steel (DIN 1.4404)
Brazing Alloy	BNi-2

CM 7900 - Pressure Drop





Compact Model

(with meter mount in aluminum diecast housing)
Weight: 18.7 lb (8.5 kg)

Remote Model

(with junction box and remote field mount transmitter)
Weight: 21.6 lb (9.8 kg)

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	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
	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)	IECEX	Compact: Ex db ia IIC T4 Gb Remote: Sensor: Ex ia IIC T4...T2 Ga Transmitter: Ex db [ia Ga] IIC T4 Gb
	Transmitter: Cl. I, Div. 1, Groups C & D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can)	EAC (TR-CU)	Group IIC or IIB, T2...T4
	Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)	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 ±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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