

TCM230K Coriolis Flow Meter

EXTREME ACCURACY MASS FLOW MEASUREMENT



Specifications

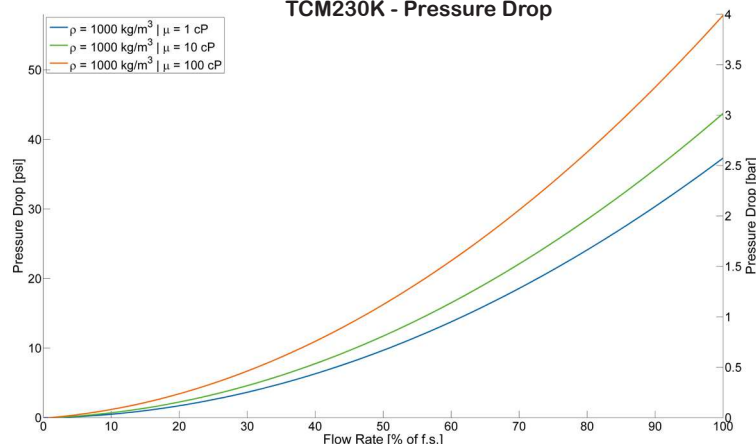
Performance

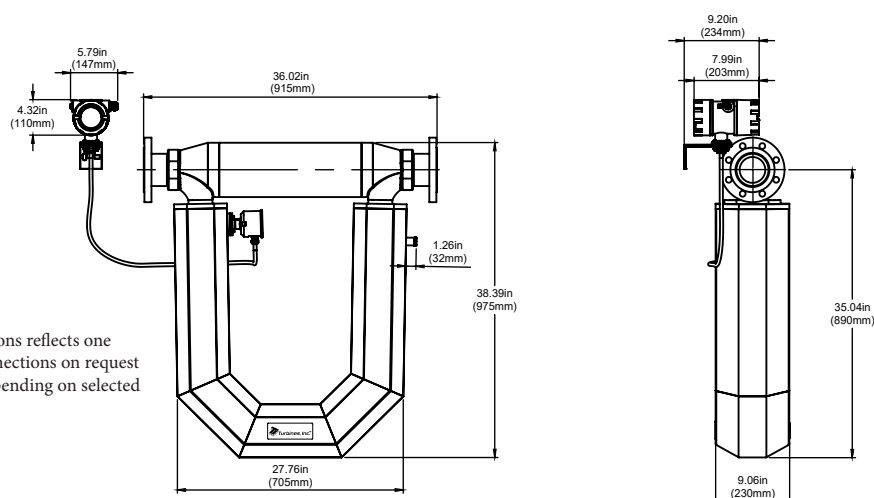
Linearity	±0.15% of flow rate (Liquids) ±0.5% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) ±0.25% of flow rate (Gases)
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C) Optional: -76°F to 392°F (-60°C to 200°C)
Pressure Rating	1450 psi 100 bar
Temperature Accuracy	±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	3" to 4" 150lb to 900lb ANSI flanges (consult factory for additional flange options)
Zero Stability	±0.015% of full scale
Density Range	up to 2,500 kg/m ³ (2.5 g/cm ³)
Max Flow Rate	230,000 kg/hr 8,450 lbs/min 230,000 l/hr 1,013 gpm 34,720 bbl/d (US)
Nominal Meter Size	3" DN80 mm

Materials

Tubes	316L Stainless steel (DIN 1.4404)
Case	316L Stainless steel (DIN 1.4404)
Flow Splitter	CF3M (DIN 1.4409)

TCM230K - Pressure Drop





*Drawing of the Meter Dimensions reflects one standard connection; other connections on request (Installation length can vary depending on selected connection).

Meter Dimensions* & Weights

Weight 194.4 lb I 87 kg {includes junction box and remote field mount transmitter}

Certifications

CSA*	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)	ATEX	Zone 1: Sensor: II 1 G Ex ia IIC T4 ... T2 Ga Transmitter: II 2(1) G Ex db [ia Ga] IIC T4 Gb Zone 2: 113G Ex nA IIC T4 Ge
		IECEX	Compact: 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 ia IIC T4 Transmitter: Ex d (ia) IIC T4

*CSA certification is only available in diecast aluminum housing.

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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