

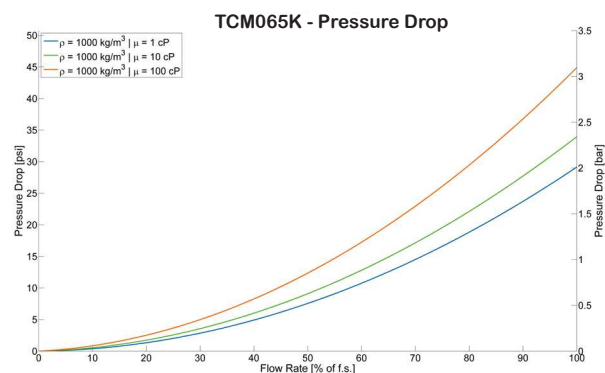
TCM065K Coriolis Mass Flow Meter

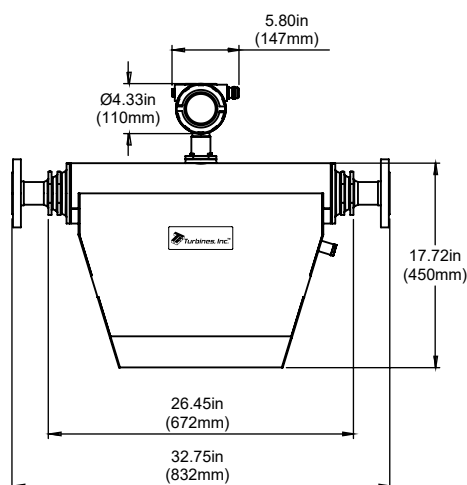
EXTREME ACCURACY MASS FLOW MEASUREMENT



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	2" to 3" 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	Maximum Flow Rate 65,000 kg/hr 2,388 lbs/min 65,000 l/hr 286.2 gpm 9,812 bbl/d (US)
Nominal Line Size	1/8" DN4 mm

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

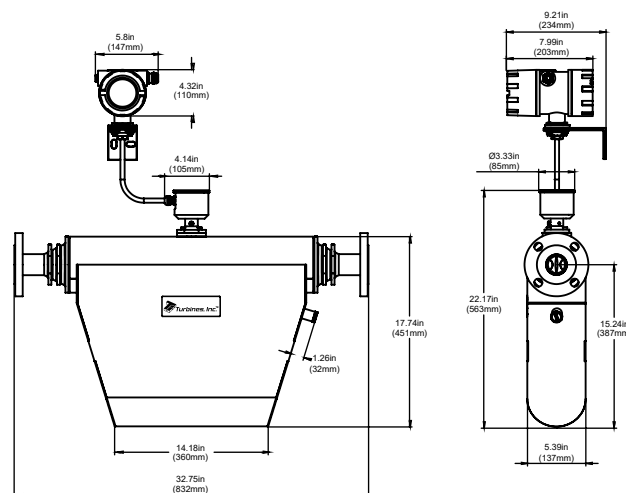




Compact Model

(with meter mount in aluminum diecast housing)

Weight: 81.9 lb (35.2 kg)



Remote Model

(with junction box and remote field mount transmitter)

Weight: 84.7 lb (36.5 kg)

Certifications

CSA*	Compact: Cl. I, Div. 1: Groups C & D: T4 (US, Can) Ex db ia IIC T4 Gb (Can)
	Remote: Sensor: Cl. I, Div. 1, Groups C & D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can)
	Transmitter: 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)

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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