

TCM3100 Coriolis Flow Meter

EXTREME ACCURACY MASS FLOW MEASUREMENT



Specifications

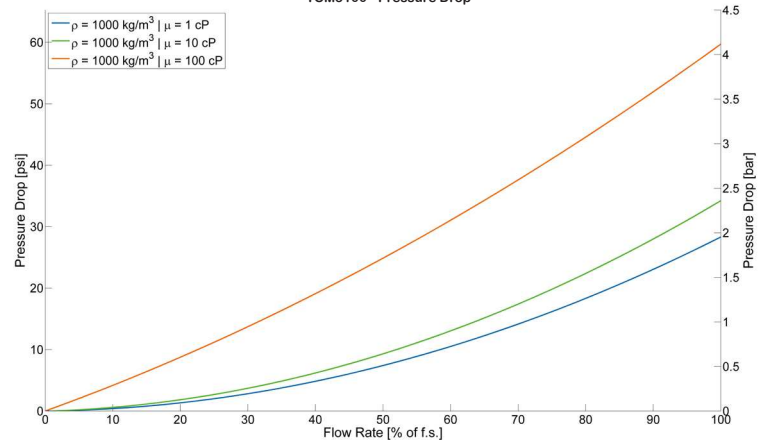
Performance

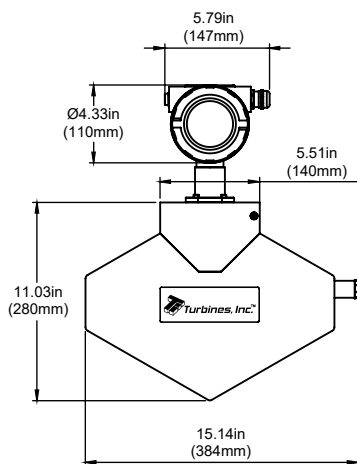
Linearity	±0.1 % of flow rate (Liquids) ±0.5% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) ±0.25% of flow rate (Gases)
Process Temperature Range	Standard: -40° F to 212° F (-40°C to 100°C) Optional: -76° F to 392° F (-60°C to 200°C)
Pressure Rating	2,900 psi 200 bar
Temperature Accuracy	±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/m ³ (2.5 g/cm ³)
Max Flow Rate	3100 kg/hr 114 lbs/min 3100 l/hr 13.65 gpm 468 bbl/d (US)
Nominal Meter Size	1/4" DN6 mm

Materials

Tubes	316L Stainless steel (DIN 1.4404)
Case	316L Stainless steel (DIN 1.4404)
Flow Splitter	CF3M (DIN 1.4409)
Brazing Alloy	BNi-2

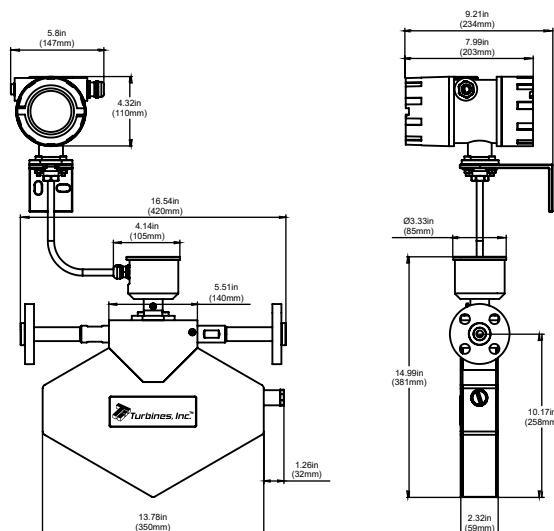
TCM3100 - Pressure Drop





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 (8.3 kg)

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

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

*CSA certification is only available in diecast aluminum housing.

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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