

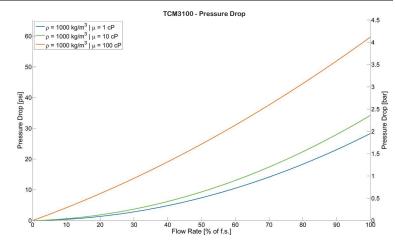
TCM3100 Coriolis Flow Meter

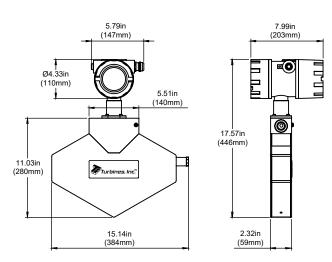
EXTREME ACCURACY MASS FLOW MEASUREMENT



Specifications Specification Specifica		
Performance		
Linearity	±0.1 % of flow rate (Liquids) I ±0.5% of flow rate (Gases)	
Repeatability	±0.05% of flow rate (Liquids) I ±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 I 200 bar	
Temperature Accuracy	±1.8° F ±0.5% of reading I ±1.0°C ±0.5% of reading	
Temperature Repeatability	±0.36°F I ±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	3100 kg/hr 114 lbs/min 3100 l/hr 13.65 gpm 468 bbl/d (US)	
Nominal Meter Size	1/4" I DN6 mm	

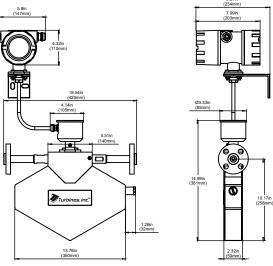
Materials			
Tubes	316L Stainless steel (DIN 1.4404)		
Case	316L Stainless steel (DIN 1.4404)		
Flow Splitter	CF3M (DIN 1.4409)		
Brazing Alloy	BNi-2		





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 !IC T4 T2 Ga (Can) Cl. I, Zone O, AEx ia !IC T4 T2 Ga (US) Transmitter: Cl. I, Div. 1, Groups C & D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can)	ATEX
	Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)	EAC (TR

ATEX	Zone 1: Sensor: II 1 G Ex ia !IC T4 T2 Ga Transmitter: II 2(1) G Ex db [ia Ga] !IC T4 Gb Zone 2: 113G Ex nA !IC T4 Ge
IECEx	Compact: Ex ia IIC T4T2 Ga Transmitter: Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2T4
KGS (Korea	Compact: 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.



15935 Highway 283 N. Altus, Oklahoma 73522, USA Tel: +1-580-477-3067

www.turbinesincorporated.com



112 Lumber Ln. Seneca, SC 29672 USA Tel: +1-864-882-4544

www.turbinesincorporated.com



960 South Meadow Ave. Odessa, TX 79761 USA Tel: +1-432-333-4800

www.turbinesodessa.com



800 Wellington Avenue Cranston, RI 02910, USA Tel: +1-401-461-6366

www.primaryflowsignal.com



2236 80th Avenue NW, Edmonton, AB T6P 1N2 Tel: 877-661-3569

www.pfscanada.ca

^{*}CSA certification is only available in diecast aluminum housing.