

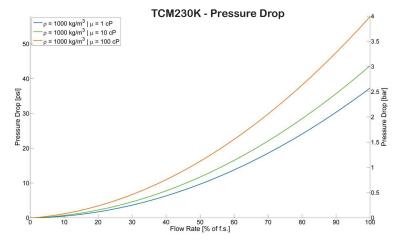
# TCM230K Coriolis Flow Meter

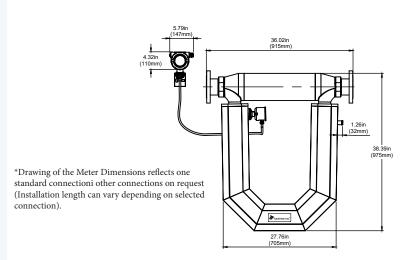
EXTREME ACCURACY MASS FLOW MEASUREMENT

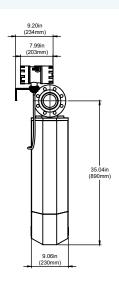


Specifications		
Performance		
Linearity	±0.15% of flow rate (Liquids) I ±0.5% of flow rate (Gases)	
Repeatability	±0.05% of flow rate (Liquids) I ±0.25% of flow rate (Gases)	
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C)   Optional: -76°F to 392°F (-60°C to 200°C)	
Pressure Rating	1450 psi   100 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	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/m3 (2.5 g/cm3)	
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)







### Meter Dimensions\* & Weights

Weight 194.4 lb I 87 kg (includes junction box and remote field mount transmitter)

## **Certifications**

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:
CI. I, Div. 1, Groups C & D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can)
CI. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)

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 (Korean)	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

<sup>\*</sup>CSA certification is only available in diecast aluminum housing.