TCM 230K Series Coriolis Mass Flow Meter

Advantages:

- > Robust for long life
- > Customized installation length
- > Excellent repeatability
- > Optional net oil functionality

Benefits:

- > Increased productivity
- > Considerable cost savings for installation
- > Increased product quality
- > Increased well efficiency

Pressure Rating: 100 bar, 1450 psi

Specifications:

Mass Flow Rate (max.): 230000 kg/h, 8450 lb/min Volumetric Flow Rate (max.): 230000 l/h, 1012 gpm, 34700 bbl/d

Nominal Meter Size: DN80, 3"

Accuracy [liquids]:1)

Basic Accuracy [Mass Flow]: ±0.1 % of flow rate Mass Flow Repeatability: ±0.05 % of flow rate Basic Accuracy [Volume Flow]: ±0.15 % of flow rate Volume Flow Repeatability: ±0.05 % of flow rate Zero Stability: ±0.01 % of full scale

Accuracy [gases]:

Basic Accuracy [Mass Flow]: ±0.5 % of flow rate Mass Flow Repeatability: ±0.25 % of flow rate

Density:

Density Range: up to 2500 kg/m3, 2.5 g/cm3 Density Accuracy: Liquids ±1.0 kg/m3, ±0.001 g/cm3 Density Repeatability: ±0.5 kg/m3, ±0.0005 g/cm3

Temperature:

-40 °C ... +100 °C, -40 °F ... +212 °F Process Temperature Range:

±1 °C ±0.5 % of reading Temperature Accuracy:

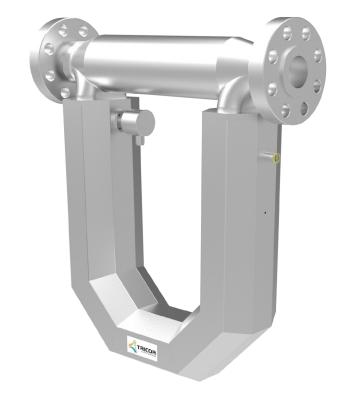
±1.8 °F ±0.5 % of reading

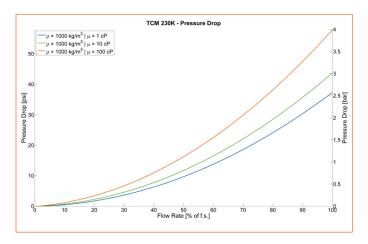
Temperature Repeatability: ±0.2 °C, ±0.36 °F

Materials of Construction [wetted parts]:

1.4404/AISI 316L Tubes: Case: 1.4404/AISI 316L Flow Splitter: CF3M/1.4409/AISI 316L

Option: NACE MR 0175 / 0103 compliant

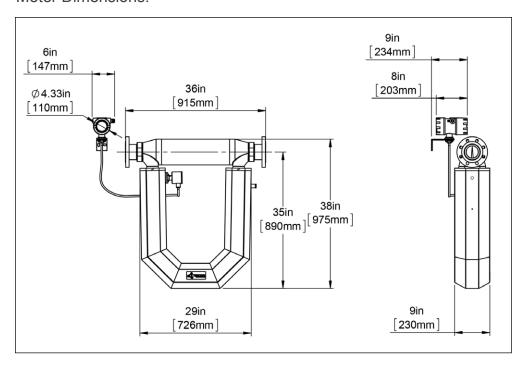




¹⁾ Stated flow accuracy combines the effects of repeatability, linearity and hystereis



Meter Dimensions:2)



weight: 87 kg/194.4 lb with junction box & remote field mount meter connection: depending on selected connection

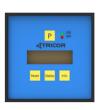
Electronics:

The TCE-8000 transmitter offered with the TRICOR Coriolis Mass Flow Meter is also available with other mounting options.

Ex Certifications:

ATEX (Ex)	Zone 1: Group IIC or IIB, T2T4
ATEX (Exn)	Zone 2: II 3G Ex nA IIC T2T4 Gc
IECEx (Ex)	Zone 1: Group IIC or IIB, T2T4
cCSAus (Ex1)5)	Class 1, Division 1: Group A, B, C, D or C, D, T2T4
ATEX + IECEx + cCSAus triple approval (Ex3) ^{5) 6)}	Zone 1: Group IIC or IIB, T2T4 and Class 1, Division 1: Group A, B, C, D or C, D, T2T4
EAC (TR-CU)	Group IIC or IIB, T2 T4

Panel Mount³⁾



Power Supply: Outputs: Interface:

Remote Field Mount⁴⁾



24 V DC ±20 % or 90 ... 264 V AC Analog, Frequency, Pulse, Status RS485 RTU (Modbus), HART®

More options on request

For cCSAus and triple Ex-approval the Ex-approvals for remote electronics in 1.4404/316L is pending
 Only with remote electronics



N & S AMERICA: SINGAPORE:

CHINA:

AW-Lake Company

2440 W. Corporate Preserve Dr. #600, Oak Creek WI 53154, USA, Tel.: +1 414 574 4300

TASI Flow Souteast Asia, Representative Office (RO) Singapore

1003 Bukit Merah Central #06-32, Singapore 159836, UEN: T15RF0080G, P: +65 6274 1130

TASI Flow China

Rm. 2429, JinYuan Office Building, No. 36, CN-BeiYuan Road, Beijing 100012, P.R. CHINA, Tel.:+86 10 520 037 38

Rest of the World:

²⁾ Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).

³⁾ Weight: 0.4 kg/0.88 lb
4) Weight with Aluminium diecast housing: 3.8 kg/8.3 lb with 3 m cable, Weight with 1.4404/AISI 316L housing: 6.15 kg/13.56 lb