TCM 0650 Series Coriolis Mass Flow Meter

Advantages:

- > Robust for long life
- > Customized installation length
- > Excellent repeatability
- > Option for 345 bar (5000 psi)

Benefits:

- > Increased productivity
- > Considerable cost savings for installation
- > Increased product quality
- > Accurate chemical injection metering

Pressure Rating:

200 bar, 2900 psi

Specifications:

Mass Flow Rate (max.): Volumetric Flow Rate (max.): Nominal Meter Size:

Accuracy [liquids]:1)

Basic Accuracy [Mass Flow]: Mass Flow Repeatability: Basic Accuracy [Volume Flow]: ±0.15 % of flow rate Volume Flow Repeatability: Zero Stability:

Accuracy [gases]:

Basic Accuracy [Mass Flow]: Mass Flow Repeatability:

Density:

Density Range: Density Accuracy: Density Repeatability:

Temperature:

Process Temperature Range:	Standard: -40 °C +100 °C, -40 °F +212 °F Optional: -60 °C +200 °C, -76 °F +392 °F
Temperature Accuracy:	±1 °C ±0.5 % of reading ±1.8 °F ±0.5 % of reading
Temperature Repeatability:	±0.2 °C, ±0.36 °F

Materials of Construction [wetted parts]:

Tubes:	1.4404/AISI 316L
Case:	1.4404/AISI 316L
Flow Splitter:	1.4404/AISI 316L
Brazing Alloy:	BNi-2

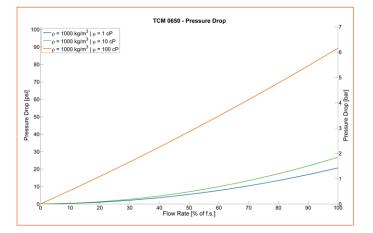
650 kg/h, 24 lb/min 650 l/h, 2.64 gpm, 98 bbl/d DN4, 1/8"

±0.1 % of flow rate ±0.05 % of flow rate ±0.05 % of flow rate ±0.01 % of full scale

±0.5 % of flow rate ±0.25 % of flow rate

up to 2500 kg/m³, 2.5 g/cm³ Liquids ±1.0 kg/m³, ±0.001 g/cm³ ±0.5 kg/m³, ±0.0005 g/cm³

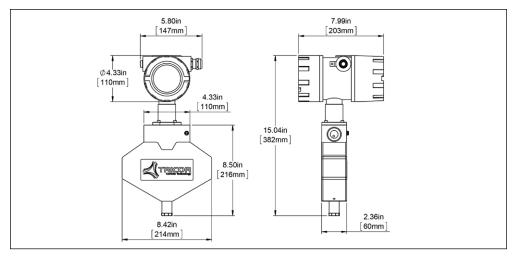


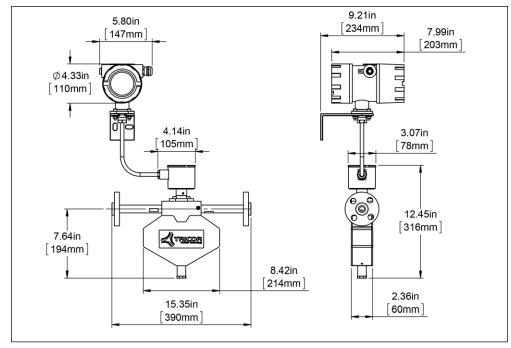


¹⁾ Stated flow accuracy combines the effects of repeatability, linearity and hystereis



Meter Dimensions:²⁾





Compact Version

weight: 7 kg/15.5 lb with meter mount ex-electronics with Aluminium diecast housing meter connection: G1/2" thread

Remote Version

weight: 8.3 kg/18.3 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: More options on request

Remote Field Mount⁴⁾



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

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

⁶ Weight 0:4 kg/s0.00 lb
⁶ 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
⁶ For cCSAus and triple Ex-approval the Ex-approvals for remote electronics in 1.4404/316L is pending.

6) Only with remote electronics



N & S AMERICA: CHINA: Rest of the World:

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