

TCM 5500 Series Coriolis Mass Flow Meter

Advantages:

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

Benefits:

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

Pressure Rating: 345 bar, 5000 psi

Specifications:

Mass Flow Rate (max.): 5500 kg/h, 202 lb/min
 Volumetric Flow Rate (max.): 5500 l/h, 24.3 gpm, 830 bbl/d
 Nominal Meter Size: DN15, 1/2"

Accuracy [liquids]:¹⁾

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

Accuracy [gases]:

Basic Accuracy [Mass Flow]: $\pm 0.5\%$ of flow rate
 Mass Flow Repeatability: $\pm 0.25\%$ of flow rate

Density:

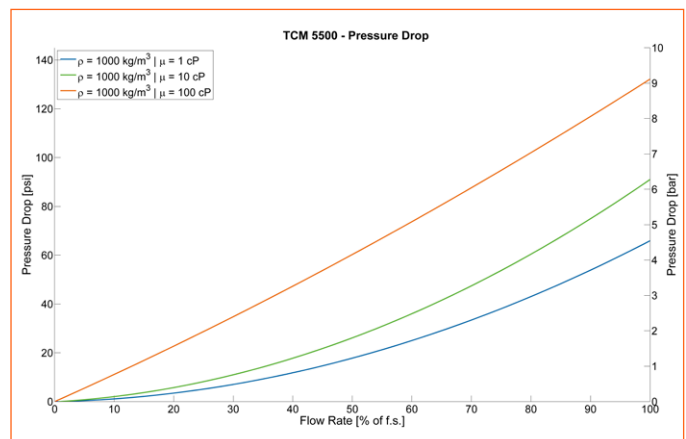
Density Range: up to 2500 kg/m³, 2.5 g/cm³
 Density Accuracy: Liquids ± 1.0 kg/m³, ± 0.001 g/cm³
 Density Repeatability: ± 0.5 kg/m³, ± 0.0005 g/cm³

Temperature:

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 $\pm 0.5\%$ of reading
 ± 1.8 °F $\pm 0.5\%$ of reading
 Temperature Repeatability: ± 0.2 °C, ± 0.36 °F

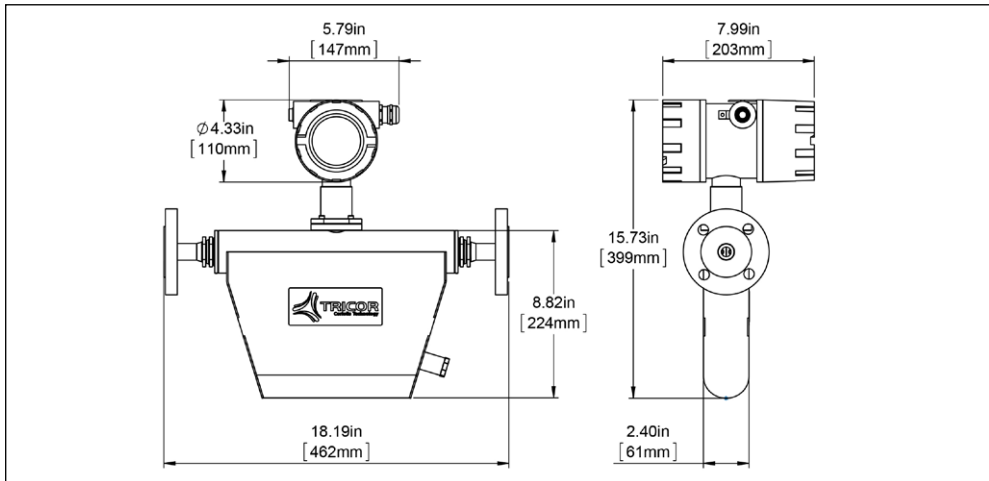
Materials of Construction [wetted parts]:

Tubes: 1.4404/AISI 316L
 Case: 1.4404/AISI 316L
 Flow Splitter: CF3M/AISI 316L
 Brazing Alloy: BNI-2



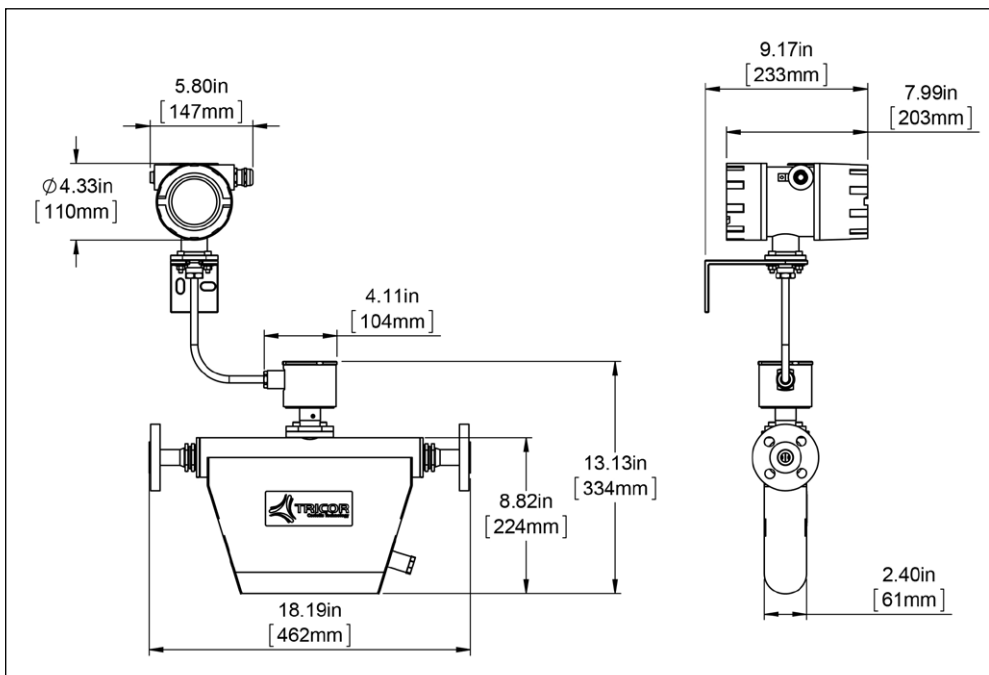
¹⁾ Stated flow accuracy combines the effects of repeatability, linearity and hysteresis

Meter Dimensions:²⁾



Compact Version

weight: 8.4 kg/22.2 lb
with meter mount ex-electronics
with Aluminium diecast housing
meter connection:
DIN15 PN40 / 1/2" ANSI CL 300



Remote Version

weight: 9.7 kg/25 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, T2...T4
ATEX (Exn)	Zone 2: II 3G Ex nA IIC T2...T4 Gc
IECEX (Ex)	Zone 1: Group IIC or IIB, T2...T4
cCSAus (Ex1) ⁵⁾	Class 1, Division 1: Group A, B, C, D or C, D, T2...T4
ATEX + IECEX + cCSAus triple approval (Ex3) ^{5) 6)}	Zone 1: Group IIC or IIB, T2...T4 and Class 1, Division 1: Group A, B, C, D or C, D, T2...T4
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 $\pm 20\%$ 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

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

⁵⁾ For cCSAus and triple Ex-approval the Ex-approvals for remote electronics in 1.4404/316L is pending.

⁶⁾ Only with remote electronics



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