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, 5,000 psi

Specifications:

Mass Flow Rate (max.): 5,500 kg/h, 202 lb/min

Volumetric Flow Rate (max.): 5,500 l/h, 24.22 gpm, 830 bbl/d (US)

Nominal Meter Size: DN15, 1/2"

Accuracy [liquids]:1)

 $\begin{array}{lll} \text{Basic Accuracy [Mass Flow]}: & \pm 0.1 \% \text{ of flow rate} \\ \text{Mass Flow Repeatability:} & \pm 0.05 \% \text{ of flow rate} \\ \text{Basic Accuracy [Volume Flow]:} & \pm 0.15 \% \text{ of flow rate} \\ \text{Volume Flow Repeatability:} & \pm 0.05 \% \text{ of flow rate} \\ \text{Zero Stability:} & \pm 0.01 \% \text{ of full scale} \end{array}$

Accuracy [gases]:

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

Density:

 $\begin{array}{lll} \mbox{Density Range:} & \mbox{up to 2500 kg/m}^3, 2.5 \mbox{g/cm}^3 \\ \mbox{Density Accuracy:} & \mbox{Liquids $\pm 1.0 \mbox{ kg/m}^3$, $\pm 0.001 \mbox{g/cm}^3$} \\ \mbox{Density Repeatability:} & \mbox{$\pm 0.5 \mbox{ kg/m}^3$, $\pm 0.0005 \mbox{g/cm}^3$} \end{array}$

Temperature:

Process Temperature Range: Standard:

-40 °F ... +212 °F (-40 °C ... +100 °C)

Optional:

-76 °F ... +392 °F (-60 °C ... +200 °C)

Temperature Accuracy: ±1.8 °F ±0.5 % of reading

(±1 °C ±0.5 % of reading)

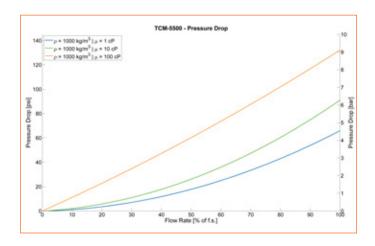
Temperature Repeatability: ±0.36 °F (±0.2 °C)

Materials of Construction [wetted parts]:

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

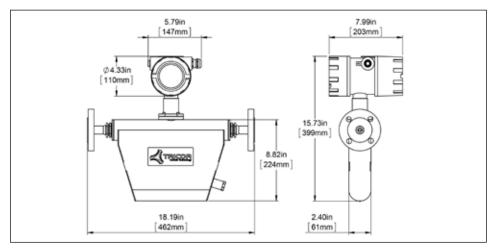
Brazing Alloy: BNi-2





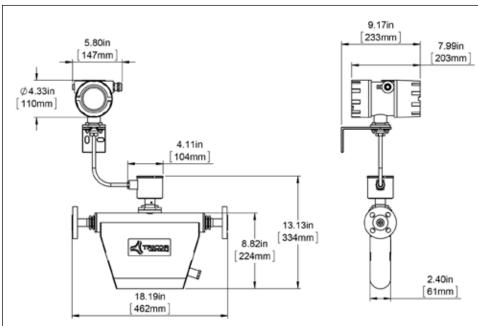


Meter Dimensions:2)



Compact Version

weight: 8.4 kg/22.2 lb with meter mount ex-electronics with aluminum 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

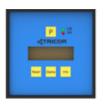
Electronics:

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, 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 (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) ⁵⁾	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

- 2) Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).
- Weight: 0.4 kg/0.88 lb.
 Weight with aluminum 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 Ex1, Ex3, EAC (TR-CU) the electronic is only available in aluminum housing.

6) Only with remote electronics.



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