TCM 1550 Series Coriolis Mass Flow Meter

Advantages:

- > Robust for long life
- > Customized installation length
- > Excellent repeatability
- > Option for 345 bar (5,000 psi)

Benefits:

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

Pressure Rating: 200 bar, 2,900 psi

Specifications:

Mass Flow Rate (max.): 1,550 kg/h, 57 lb/min

Volumetric Flow Rate (max.): 1,550 l/h, 6.82 gpm, 234 bbl/d (US)

Nominal Meter Size: DN6, 1/4"

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 2,500 kg/m}^3, 2.5 g/cm^3 \\ \mbox{Density Accuracy:} & \mbox{Liquids $\pm 1.0 kg/m}^3, $\pm 0.001 g/cm}^3 \\ \mbox{Density Repeatability:} & \mbox{$\pm 0.5 kg/m}^3, $\pm 0.0005 g/cm}^3 \end{array}$

Temperature:

Process Temperature Range: Standard:

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

Optional:

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

Temperature Accuracy: $\pm 1.8 \, ^{\circ}\text{F} \, \pm 0.5 \, \%$ of reading

(±1 °C ±0.5 % of reading)

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

Materials of Construction [wetted parts]:

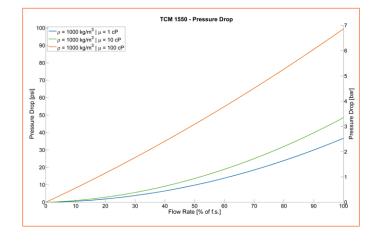
 Tubes:
 1.4404/AISI 316L

 Case:
 1.4404/AISI 316L

 Flow Splitter:
 1.4404/AISI 316L

Brazing Alloy: BNi-2

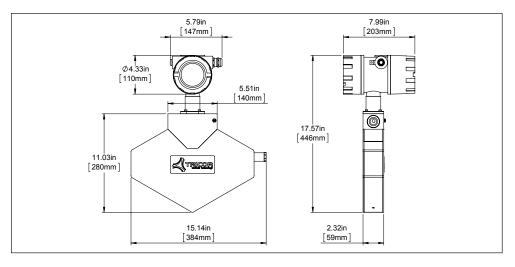




¹⁾ Stated flow accuracy combines the effects of repeatability, linearity and hystereis.

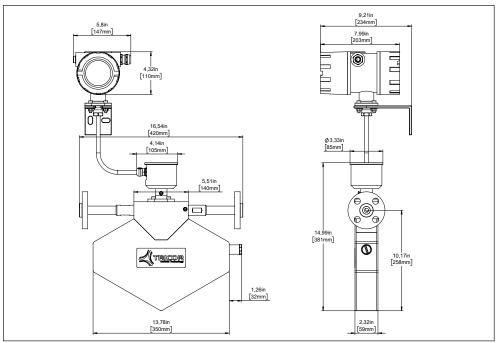


Meter Dimensions:2)



Compact Version

weight: 11.6 kg/25.7 lb with meter mount ex-electronics with aluminum diecast housing meter connection: G1/2" thread



Remote Version

weight: 12.9 kg/28.5 lb

with junction box & remote field mount

meter connection:

depending on selected connection

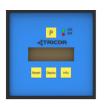
Electronics:

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) ⁵⁾	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.
- 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. For Ex1, Ex3, EAC (TR-CU) the electronic is only available in aluminum housing.



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