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:

 $\begin{tabular}{lll} \mbox{Mass Flow Rate (max.):} & 650 \mbox{ kg/h, 22 lb/min} \\ \mbox{Volumetric Flow Rate (max.):} & 650 \mbox{ l/h, 2.64 gpm, 98 bbl/d} \\ \end{tabular}$

Nominal Meter Size: DN4, 1/8"

Accuracy [liquids]:1

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

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

Temperature:

Process Temperature Range: standard:

-40 °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]:

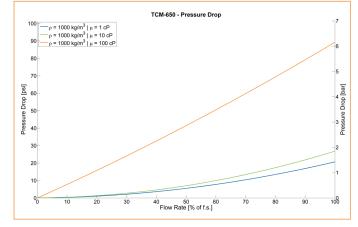
Tubes: 1.4404 / AISI 316L

Case: 1.4301 / AISI 304 (1.4404 / AISI 316 L)

Flow Splitter: 1.4404 / AISI 316L

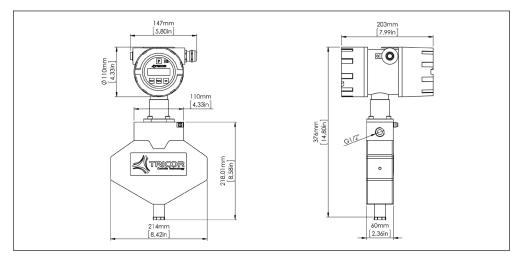
Brazing Alloy: BNi-2





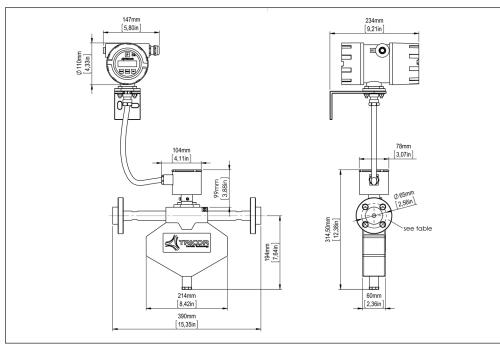


Meter Dimensions:1



Compact Version

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



Remote Version

weight: 8.3 kg/18.3 lb with junction box & remote field mount meter connection: standard meter connection according table

Electronics:

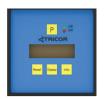
The TCE-8000 transmitter offered with the TRICOR Coriolis Mass Flow Meter is also available with other mounting options.

Ex Certifications:

ATEX	Zone 1: Group IIC, T4 Zone 2: II 3G Ex nA IIC, T4 Gc
IECEx	Zone 1: Group IIC, T4
cCSAus Ex	Class I, Division 1: Group A, B, C, D, T4

¹ Drawing of the Meter Dimensions reflects one standard connection, other connections on request. (Installation length can vary depending on selected connection) ² weight: 0.4 kg/0.88 lb

Panel Mount²



Remote Field Mount³



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

More options on request



³ weight: 3.8 kg/8.3 lb with 3 m cable