

TCM 7900 Series Coriolis Mass Flow Meter

Advantages:

- > Robust for long life
- > Customized installation length
- > Excellent repeatability
- > Optional net oil functionality

Benefits:

- > Increased productivity
- > Considerable cost savings for installation
- > Increased product quality
- > Increased well efficiency

Pressure Rating: 100 bar, 1450 psi

Specifications:

Mass Flow Rate (max.): 7900 kg/h, 290 lb/min
 Volumetric Flow Rate (max.): 7900 l/h, 34.8 gpm, 1190 bbl/d
 Nominal Meter Size: DN15, 1/2"

Accuracy [liquids]:¹

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

Accuracy [gases]:

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

Density:

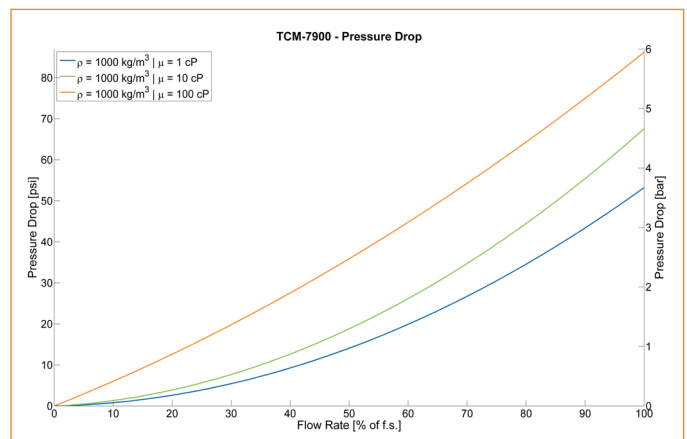
Density Range: up to 2500 kg/m³, 2.5 g/cm³
 Density Accuracy: Liquids ±1.0 kg/m³, ±0.001 g/cm³
 Density Repeatability: ±0.5 kg/m³, ±0.0005 g/cm³

Temperature:

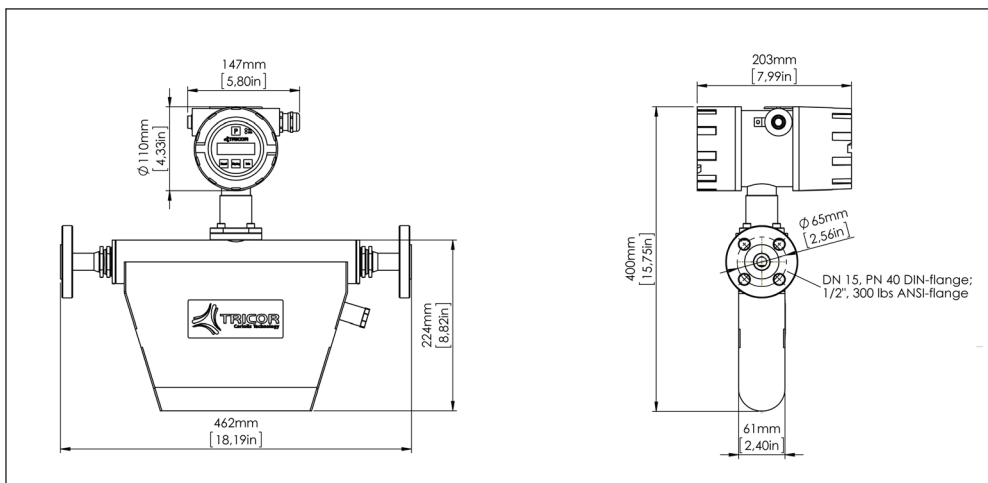
Process Temperature Range: standard: -40 °C ... +100 °C, -40 °F ... +212 °F
 optional: -60 °C ... +200 °C, -76 °F ... +392 °F
 Temperature Accuracy: ±1 °C ±0.5 % of reading
 ±1.8 °F ±0.5 % of reading
 Temperature Repeatability: ±0.2 °C, ±0.36 °F

Materials of Construction [wetted parts]:

Tubes: 1.4404 / AISI 316L
 Case: 1.4301 / AISI 304 (1.4404 / AISI 316L)
 Flow Splitter: CF3M / AISI 316L
 Brazing Alloy: BNi-2

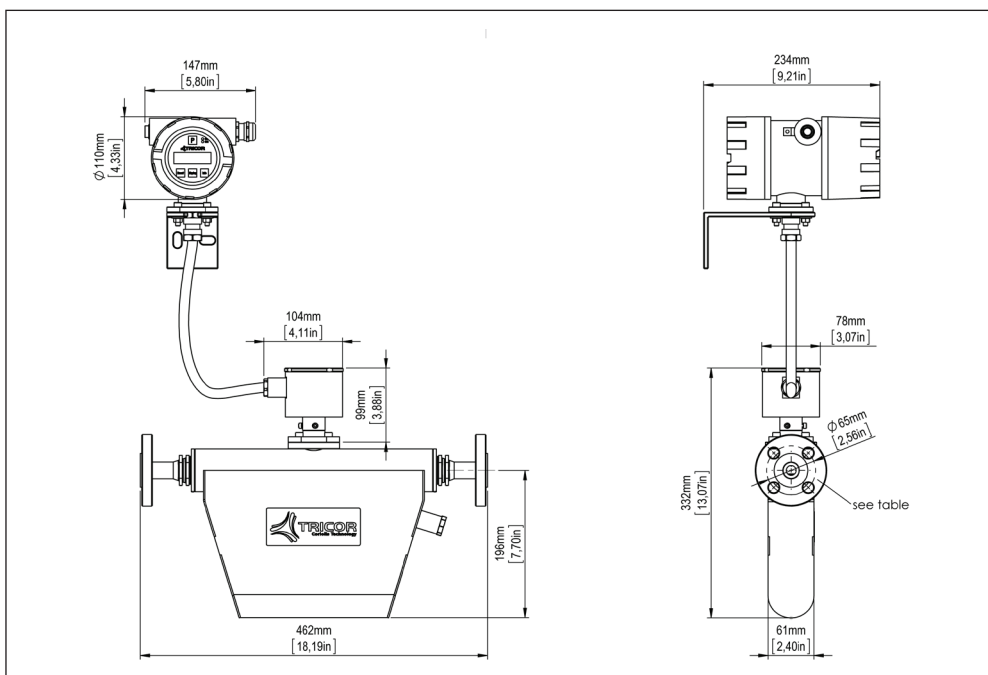


Meter Dimensions:¹



Compact Version

weight: 8.5 kg/21.7 lb
with meter mount ex-electronics
meter connection:
DIN15 PN40 / 1/2" ANSI CL 300



Remote Version

weight: 9.8 kg/24.5 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

Panel Mount²



Remote Field Mount³



Power Supply: 24 V DC \pm 20 % or 90 ... 264 V AC
Outputs: Analog, Frequency, Pulse, Status
Interface: RS485 RTU (Modbus), HART®
More options on request

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

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