# TCM 230K 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.): 230000 kg/h, 8433 lb/min
Volumetric Flow Rate (max.): 230000 l/h, 1012 gpm, 34700 bbl/d

Nominal Meter Size: DN80, 3"

# 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: -40 °C ... +100 °C, -40 °F ... +212 °F

Temperature Accuracy:  $\pm$ 1 °C  $\pm$ 0.5 % of reading  $\pm$ 1.8 °F  $\pm$ 0.5 % of reading

Temperature Repeatability: ±0.2 °C, ±0.36 °F



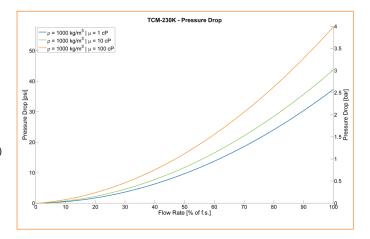
Tubes: 1.4404 / AISI 316L

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

Flow Splitter: CF3M / 1.4409 / AISI 316L

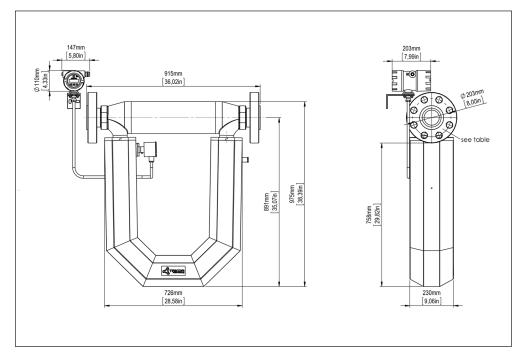
Brazing Alloy: BNi-2







### Meter Dimensions:1



weight: 87 kg/194.4 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.

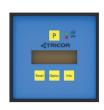
#### Ex Certifications:

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

<sup>&</sup>lt;sup>1</sup> Drawing of the Meter Dimensions reflects one standard connection, other connections on request. (Installation length can vary depending on selected connection)

### Panel Mount<sup>2</sup>

# Remote Field Mount<sup>3</sup>





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

<sup>&</sup>lt;sup>2</sup> weight: 0.4 kg/0.88 lb <sup>3</sup> weight: 3.8 kg/8.3 lb with 3 m cable