FEATURES

- Robust, no moving parts
- · Customized installation length
- Excellent repeatability (better than ±0.05 %), accuracy (±0.1 %)
- Advanced transmitter technology Upgrade/modernize in place

BENEFITS

- ▶ Increased productivity
- ▶ Considerable cost savings for installation
- Increased product quality
- Optimized lifecycle management

FLOW RATE

Mass Flow Rate (max.): 3,100 kg/h [114 lb/min]

Volumetric Flow Rate (max.): 3,100 l/h

[13.65 gpm, 468 oil bbl/d (US)]

Nominal Meter Size: DN6 [¼"]

PRESSURE RATING 200 bar [2,900 psi]

Option:

345 bar [5,000 psi]

ACCURACY (LIQUIDS)¹⁾

Basic Accuracy (Mass Flow): ±0.1 % of flow rate

Repeatability (Mass Flow): better than ±0.05 % of flow rate

Basic Accuracy (Volume Flow): ±0.15 % of flow rate

Repeatability (Volume Flow): better than ±0.05 % of flow rate

Zero Stability: ±0.01 % of full scale

ACCURACY (GASES)

Basic Accuracy (Mass Flow): ±0.5 % of flow rate
Repeatability (Mass Flow): ±0.25 % of flow rate

DENSITY

 $\begin{array}{lll} \text{Density Range:} & \text{up to 2,500 kg/m}^3 \left[2.5 \text{ g/cm}^3\right] \\ \text{Density Accuracy}^2\text{:} & \pm 1.0 \text{ kg/m}^3 \left[\pm 0.001 \text{ g/cm}^3\right] \\ \text{Density Repeatability:} & \pm 0.5 \text{ kg/m}^3 \left[\pm 0.0005 \text{ g/cm}^3\right] \end{array}$

TEMPERATURE

Process Temperature Range: -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 (WETTED PARTS)

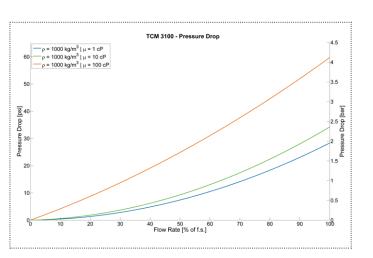
 Tubes:
 1.4404 [AISI 316L]

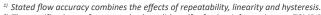
 Case:
 1.4404 [AISI 316L]

 Flow Splitter:
 1.4404 [AISI 316L]

Brazing Alloy: BNi-2

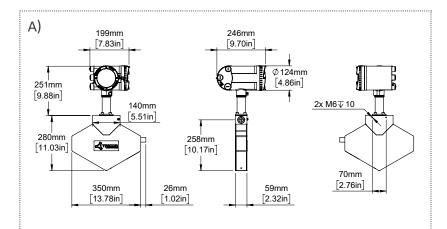


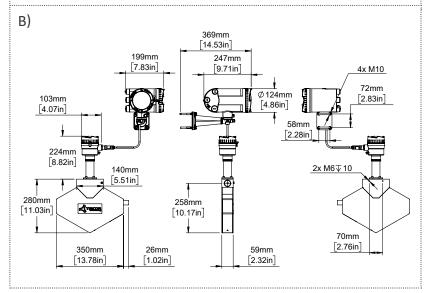




²⁾ The specifications refer to standard conditions (for further information see TCMP PRO series manual).

PRO Series | TCMP 3100 Coriolis Mass Flow Meter





METER DIMENSIONS³⁾ AND WEIGHTS

A) Compact Version

Weight: 13.2 kg [29.1 lb]

With meter mount in aluminum diecast housing

B) Remote Version

Weight: 15.7 kg [34.6 lb]

With junction box and remote field mount

Standard Process Connection

G½" thread (others on request)

EX-CERTIFICATIONS4)

ATEX	Zone 1: II (2)1 Ex db ia [ia Ga] IIC T* Gb ⁵⁾
	Zone 2: 3G Ex nR nA IIC T4
IECEx	Ex db ia [ia Ga] IIC T* Gb ⁵⁾
cCSAus	Class 1, Div. 1: Group A - D, T* 5)

BASIC TRANSMITTER⁶⁾



COMPACT MOUNT



REMOTE MOUNT



DISPLAY ELECTRONICS

20 ... 27 V DC Power Supply:

100 ... 240 V AC

Graphical Display: 240 x 160 pixels

Configurable I/O: Analog, Digital, Frequency, Relay Interfaces: PROFIBUS PA, PROFIBUS DP,

HART 7.5, Modbus RTU

Enclosure Material: Aluminum Cable Gland: ½" NPT

3) Drawing of the meter dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).

- 5) T* refer to Ex-certificate.
- ⁶⁾ Specification basic transmitter: see special TCD 9010 spec sheet.



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