PRO Series | TCMP 1550 Coriolis Mass Flow Meter

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

TRICOR

Optimized lifecycle management

FLOW RATE

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

Volumetric Flow Rate (max.): 1,550 l/h

[6.82 gpm, 234 oil bbl/d (US)]

DN6 [1/4"] Nominal Meter Size:

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)

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

DENSITY

Density Range: up to 2,500 kg/m³ [2.5 g/cm³] Density Accuracy²⁾: ±1.0 kg/m3 [±0.001 g/cm3] Density Repeatability: ±0.5 kg/m³ [±0.0005 g/cm³]

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]

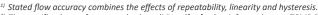
TCM 1550 - Pressure Drop ρ = 1000 kg/m³ | μ = 1 cP ρ = 1000 kg/m³ | μ = 10 cP ρ = 1000 kg/m³ | μ = 100 cP 60 50 30 20 50 6 Flow Rate [% of f.s.]

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MATERIALS (WETTED PARTS)

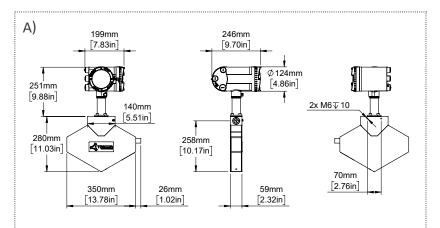
Tubes: 1.4404 [AISI 316L] Case: 1.4404 [AISI 316L] Flow Splitter: 1.4404 [AISI 316L]

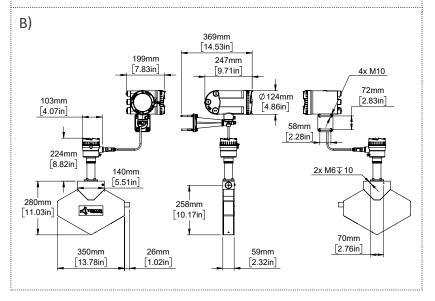
BNi-2 Brazing Alloy:



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

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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

Analog, Digital, Frequency, Relay

Configurable I/O: 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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