PRO Series | TCMP 0650 Coriolis Mass Flow Meter

FEATURES

- Robust, no moving parts
- Customized installation length
- Excellent Repeatability (±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.):

650 kg/h [24 lb/min]

Volumetric Flow Rate (max.): Nominal Meter Size: 650 l/h [2.86 gpm, 98 bbl/d (US)]

DN4 [1/8"]

PRESSURE RATING

200 bar [2,900 psi]

Option:

345 bar [5,000 psi]

ACCURACY (LIQUIDS)1)

Basic Accuracy (Mass Flow): Repeatability (Mass Flow): Basic Accuracy (Volume Flow): Repeatability (Volume Flow): Zero Stability: ± 0.1 % of flow rate ± 0.05 % of flow rate ± 0.15 % of flow rate ± 0.05 % of flow rate

±0.01 % of full scale

ACCURACY (GASES)

Basic Accuracy (Mass Flow): Repeatability (Mass Flow):

±0.5 % of flow rate ±0.25 % of flow rate

DENSITY

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

TEMPERATURE

Process Temperature Range:

-40 °C ... +100 °C [-40 °F ... +212 °F]

Option:

-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)

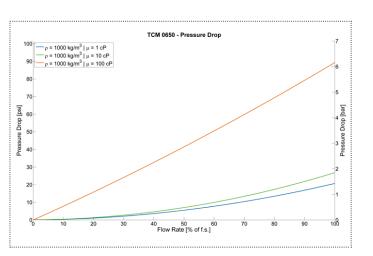
 Tubes:
 1.4404 [AISI 316L]

 Case:
 1.4404 [AISI 316L]

 Flow Splitter:
 1.4404 [AISI 316L]

Brazing Alloy: BNi-2



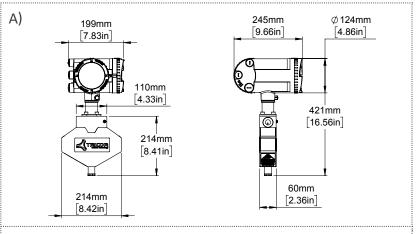




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B) 14.57in 245mm 199mm 9.66in 7.83in Ø124mm 4.86in 172mm Ø87mm [6.77in] [3.42in] 110mm 4.33in 393mm [15.46in] 192mm 7.54in 60mm [2.36in] 214mm

METER DIMENSIONS²⁾ AND WEIGHTS

A) Compact Version

Weight: 8.6 kg [19.0 lb]

With meter mount in aluminum diecast housing

B) Remote Version

Weight: 11.1 kg [24.5 lb]

With junction box and remote field mount

Standard Process Connection

G½" thread (others on request)

EX-CERTIFICATIONS⁶⁾

ATEX (Ex)	Zone 1:
	Group IIC or IIB, T2T6
ATEX (Exn)	Zone 2:
	II 3G Ex nA IIC T2T6 Gc
IECEx (Ex)	Zone 1:
	Group IIC or IIB, T2T6
cCSAus (Ex1)	Class 1, Division 1:
	Group A, B, C, D or C, D, T2T6

BASIC TRANSMITTER3)

8.42in



COMPACT MOUNT⁴⁾



REMOTE MOUNT⁵⁾



DISPLAY ELECTRONICS

20 ... 27 V DC ± 10% Power Supply:

100 ... 240 V AC \pm 10 %

Graphical Display: 240 x 160 pixels

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

HART 7.5, Modbus RS485 RTU

Enclosure Material: Aluminum

½" NPT Cable Gland:

- ²⁾ Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).
- 3) Weight: 1.4 kg [3.1 lb].
- ⁴⁾ Weight: 4.5 kg [9.9 lb].
- ⁵⁾ Weight: 7.0 kg [15.4 lb] with 3 m cable.
- 6) Release pending.



www.tricorflow.com

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