



PRO Series | TCMP 0325 Coriolis Mass Flow Meter

FEATURES

- Robust, no moving parts
- Customized installation length
- Excellent repeatability (better than $\pm 0.05\%$), accuracy ($\pm 0.1\%$)
- 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.): | 325 kg/h [12 lb/min] |
| Volumetric Flow Rate (max.): | 325 l/h [1.43 gpm, 49 oil bbl/d (US)] |
| Nominal Meter Size: | DN4 [$\frac{1}{8}$ " |

PRESSURE RATING

| |
|---------------------|
| 200 bar [2,900 psi] |
| Option: |
| 345 bar [5,000 psi] |

ACCURACY (LIQUIDS)¹⁾

| | |
|-------------------------------|---------------------------------------|
| Basic Accuracy (Mass Flow): | $\pm 0.1\%$ of flow rate |
| Repeatability (Mass Flow): | better than $\pm 0.05\%$ of flow rate |
| Basic Accuracy (Volume Flow): | $\pm 0.15\%$ of flow rate |
| Repeatability (Volume Flow): | better than $\pm 0.05\%$ of flow rate |
| Zero Stability: | $\pm 0.01\%$ of full scale |

ACCURACY (GASES)

| | |
|-----------------------------|---------------------------|
| Basic Accuracy (Mass Flow): | $\pm 0.5\%$ of flow rate |
| Repeatability (Mass Flow): | $\pm 0.25\%$ of flow rate |

DENSITY

| | |
|----------------------------------|--|
| Density Range: | up to 2,500 kg/m ³ [2.5 g/cm ³] |
| Density Accuracy ²⁾ : | ± 1.0 kg/m ³ [± 0.001 g/cm ³] |
| Density Repeatability: | ± 0.5 kg/m ³ [± 0.0005 g/cm ³] |

TEMPERATURE

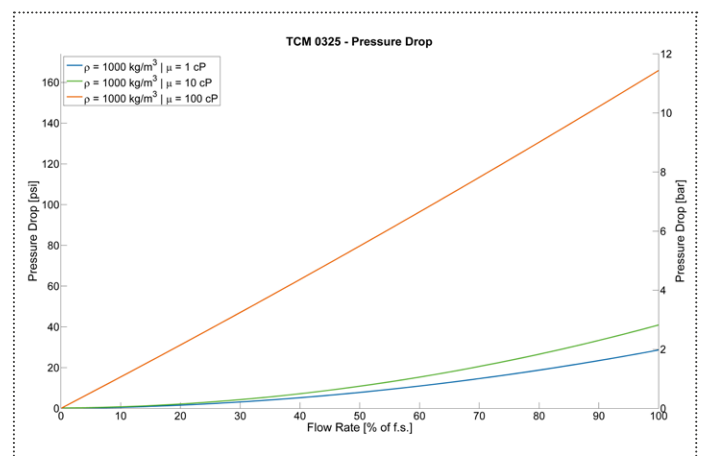
| | |
|----------------------------|---|
| Process Temperature Range: | -60 °C ... +200 °C [-76 °F ... +392 °F] |
| Temperature Accuracy: | ± 1 °C $\pm 0.5\%$ of reading [± 1.8 °F $\pm 0.5\%$ of reading] |
| Temperature Repeatability: | ± 0.2 °C [± 0.36 °F] |

MATERIALS (WETTED PARTS)

| | |
|----------------|--------------------|
| Tubes: | 1.4404 [AISI 316L] |
| Case: | 1.4404 [AISI 316L] |
| Flow Splitter: | 1.4404 [AISI 316L] |
| Brazing Alloy: | BNI-2 |

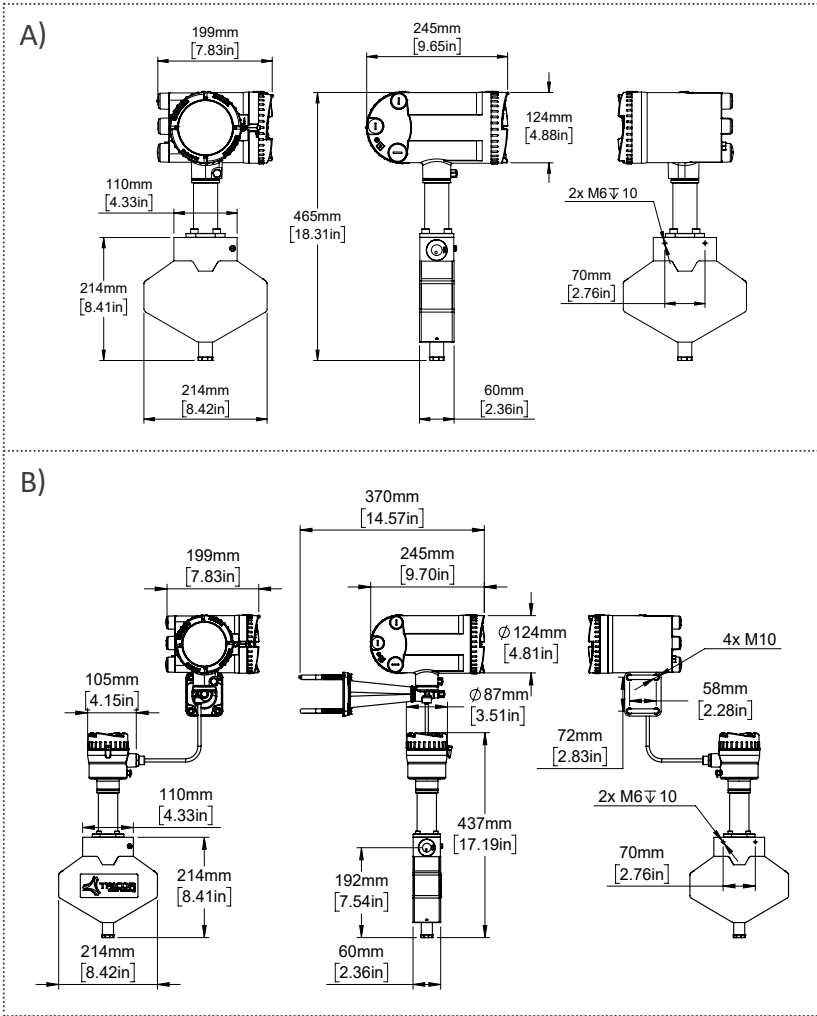
¹⁾ Stated flow accuracy combines the effects of repeatability, linearity and hysteresis.

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: 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

G $\frac{1}{2}$ " 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⁾



REMOTE MOUNT



COMPACT MOUNT



DISPLAY ELECTRONICS

Power Supply: 20 ... 27 V DC

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: $\frac{1}{2}$ " NPT

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

⁴⁾ Version dependent.

⁵⁾ T* refer to Ex-certificate.

⁶⁾ Specification basic transmitter: see special TCD 9010 spec sheet.

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