PRO Series | TCMP 028K 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
- ▶ Optimized lifecycle management

FLOW RATE

Mass Flow Rate (max.): 28,000 kg/h [1,029 lb/min]

Volumetric Flow Rate (max.): 28,000 l/h

[123.3 gpm, 4,227 oil bbl/d (US)]

Nominal Meter Size: DN25 [1"]

PRESSURE RATING 100 bar [1,450 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

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 ± 0.5 % of reading

[±1.8 °F ±0.5 % of reading]

Temperature Repeatability: ±0.2 °C [±0.36 °F]

MATERIALS (WETTED PARTS)

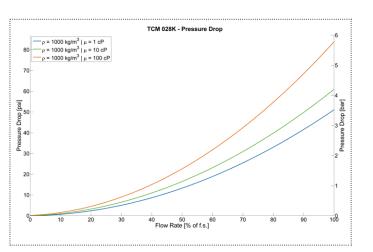
 Tubes:
 1.4404 [AISI 316L]

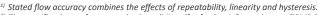
 Case:
 1.4404 [AISI 316L]

 Flow Splitter:
 CF3M [AISI 316L]

Brazing Alloy: BNi-2

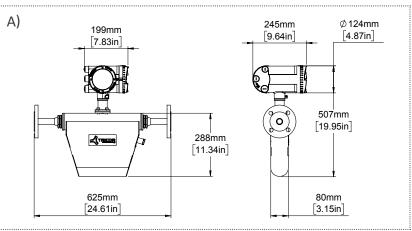


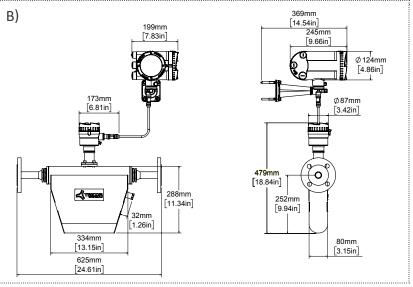




²⁾ The specifications refer to standard conditions (for further information see TCMP PRO series manual).

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METER DIMENSIONS³⁾ AND WEIGHTS

A) Compact Version

Weight: 14.7 kg [32.3 lb]

With meter mount in aluminum diecast housing

B) Remote Version

Weight: 17.2 kg [37.8 lb]

With junction box and remote field mount

Standard Process Connection

DN25 PN40 [1" ANSI CL 300] (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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