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.):

7,900 kg/h [290 lb/min]

Volumetric Flow Rate (max.):

7,900 l/h

[34.78 gpm, 1,193 oil bbl/d (US)]

Nominal Meter Size:

DN15 [½"]

PRESSURE RATING

100 bar [1,450 psi]

ACCURACY (LIQUIDS)1)

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

±0.1 % of flow rate

Basic Accuracy (Volume Flow):

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

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

DENSITY

Density Range: Density Accuracy²⁾: 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:

-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:

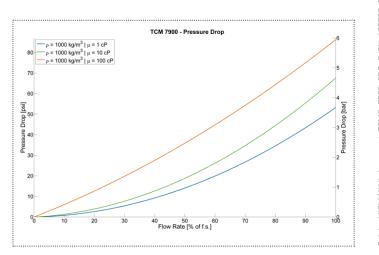
±0.2 °C [±0.36 °F]

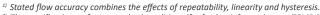
MATERIALS (WETTED PARTS)

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

Brazing Alloy: BNi-2



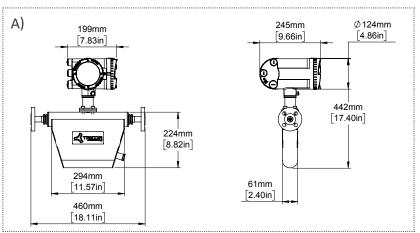


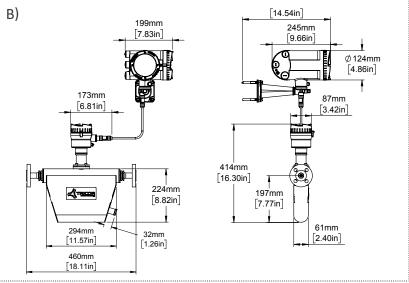


²⁾ The specifications refer to standard conditions (for further information see TCMP PRO series manual).

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PRO Series | TCMP 7900 Coriolis Mass Flow Meter





METER DIMENSIONS³⁾ AND WEIGHTS

A) Compact Version

Weight: 10.0 kg [22.0 lb]

With meter mount in aluminum diecast housing

B) Remote Version

Weight: 12.5 kg [27.6 lb]

With junction box and remote field mount

Standard Process Connection

DN15 PN40 [1/2" ANSI CL 300] (others on request)

EX-CERTIFICATIONS4)

	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

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: ½" 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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