



# PRO Plus Series | TCMQ 6400 Coriolis Mass Flow Meter

## FEATURES

- Fast dosage, short response time (max. 10 ms )
- 100 Hz refresh rate for all outputs
- Extremely short installation length
- High zero stability drift-free
- Empty pipe detection

## BENEFITS

- ▶ High dosing accuracy
- ▶ Suitable for pump monitoring, fast control circuits
- ▶ Best fit in most system configurations
- ▶ Accuracy combined with long-term stability
- ▶ Extensive diagnostics and self-monitoring

## FLOW RATE

Mass Flow Rate (max.):	6,400 kg/h [235 lb/min]
Volumetric Flow Rate (max.):	6,400 l/h [28 gpm, 970 oil bbl/d (US)]
Nominal Meter Size:	DN15 [½"]

**PRESSURE RATING** 100 bar [1,450 psi]

## ACCURACY (LIQUIDS)<sup>1)</sup>

Basic Accuracy (Mass Flow):	±0.1 % of flow rate
Repeatability (Mass Flow):	±0.05 % of flow rate
Basic Accuracy (Volume Flow):	±0.5 % (option: up to ±0.1 %) of flow rate
Repeatability (Volume Flow):	±0.05 % of flow rate
Zero Stability:	±0.003 % of full scale

## ACCURACY (GASES)

Basic Accuracy (Mass Flow):	±0.35 % of flow rate
Repeatability (Mass Flow):	±0.05 % of flow rate

## DENSITY

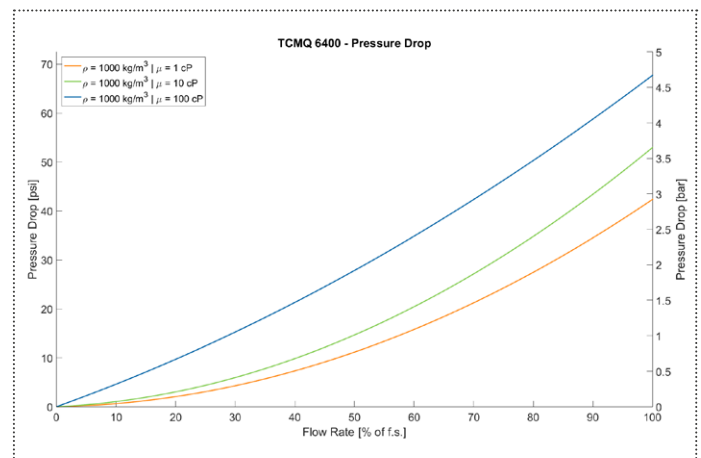
Density Range:	up to 5,000 kg/m <sup>3</sup> [5.0 g/cm <sup>3</sup> ]
Density Accuracy:	±5.0 kg/m <sup>3</sup> (option: ±0.5 kg/m <sup>3</sup> ) [±0.005 g/cm <sup>3</sup> (option: ±0.0005 g/cm <sup>3</sup> )]
Density Repeatability:	±0.25 kg/m <sup>3</sup> [±0.00025 g/cm <sup>3</sup> ]
Brix:	0.1 °Brix (1,000/m <sup>3</sup> )

## TEMPERATURE

Process Temperature Range:	-60 °C ... +200 °C [-76 °F ... +392 °F]
Temperature Accuracy:	±0.5 °C ±0.25 % of reading [±0.9 °F ±0.25 % of reading]

## MATERIALS (WETTED PARTS)

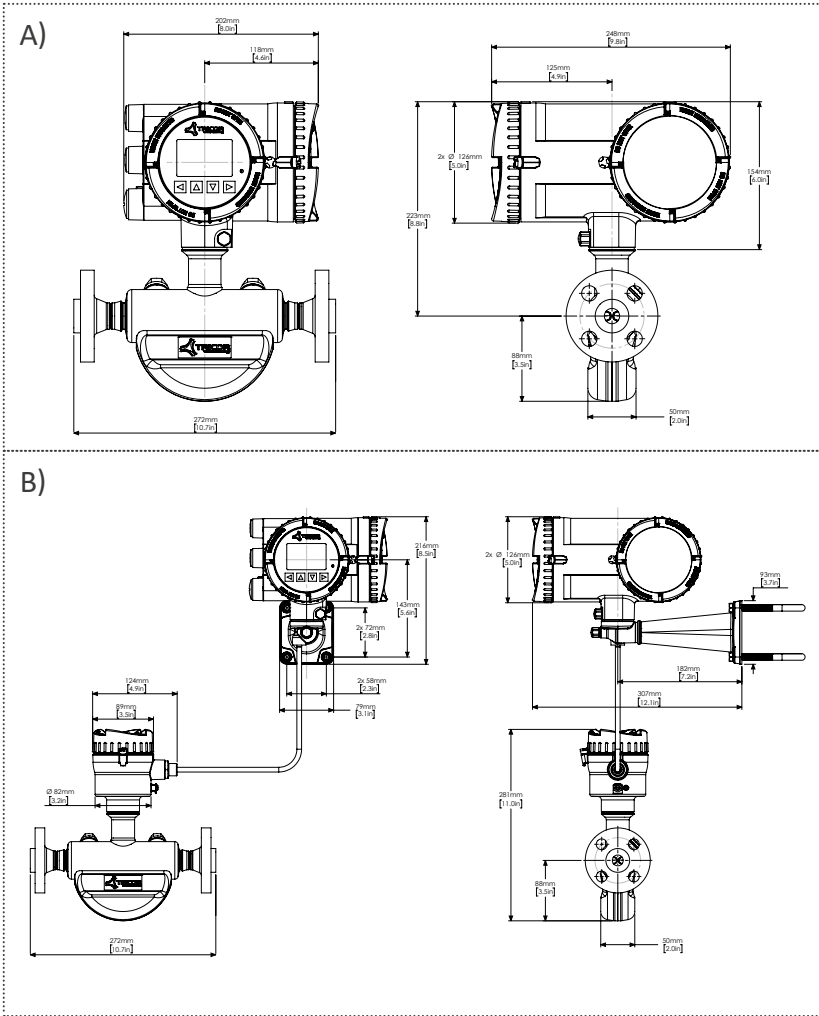
Case:	1.4301 [AISI 304]
Tubes:	1.4435 [AISI 316L]
Flow Splitter:	1.4404 [AISI 316L]



<sup>1)</sup> Stated flow accuracy combines the effects of repeatability, linearity and hysteresis.



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## METER DIMENSIONS<sup>2)</sup> AND WEIGHTS

### A) Compact Version

Weight: 9.5 kg [20.9 lb]  
With meter mount in aluminum diecast housing

### B) Remote Version

Weight: 12.0 kg [26.5 lb]  
With junction box and remote field mount

### Standard Process Connection (others on request)

DN15 – EN 1092-1 B1, PN40  
[ASME ½" B16.5 Class 150 / 300]

## EX-CERTIFICATIONS<sup>3)</sup>

ATEX	Zone 1:	Group IIC or IIB, T2...T6
	Zone 2:	II 3G Ex nA IIC T2...T6 Gc
IECEX	Zone 1:	Group IIC or IIB, T2...T6
	Class 1, Division 1: Group A, B, C, D or C, D, T2...T6	
cCSAus	Class 1, Division 1: Group A, B, C, D or C, D, T2...T6	

## BASIC TRANSMITTER<sup>4)</sup>



## 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<sup>5)</sup>, PROFIBUS DP<sup>5)</sup>,  
HART 7.5, Modbus RS485 RTU  
Enclosure Material: Aluminum  
Cable Gland: ½" NPT

<sup>2)</sup> Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).

<sup>3)</sup> Release pending.

<sup>4)</sup> Specification basic transmitter: see special TCD 9010 spec sheet.

<sup>5)</sup> Available autumn 2019.

[www.tricorflow.com](http://www.tricorflow.com)



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