



# PRO Series | TCMP 1550 Coriolis Mass Flow Meter

## FEATURES

- Robust, no moving parts
- Customized installation length
- Excellent Repeatability ( $\pm 0.05\%$ ), 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.):	1,550 kg/h [57 lb/min]
Volumetric Flow Rate (max.):	1,550 l/h [6.82 gpm, 234 bbl/d (US)]
Nominal Meter Size:	DN6 [¼"]

## PRESSURE RATING

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

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

Basic Accuracy (Mass Flow):	$\pm 0.1\%$ of flow rate
Repeatability (Mass Flow):	$\pm 0.05\%$ of flow rate
Basic Accuracy (Volume Flow):	$\pm 0.15\%$ of flow rate
Repeatability (Volume Flow):	$\pm 0.05\%$ 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 <sup>3</sup> [2.5 g/cm <sup>3</sup> ]
Density Accuracy:	$\pm 1.0$ kg/m <sup>3</sup> [ $\pm 0.001$ g/cm <sup>3</sup> ]
Density Repeatability:	$\pm 0.5$ kg/m <sup>3</sup> [ $\pm 0.0005$ g/cm <sup>3</sup> ]

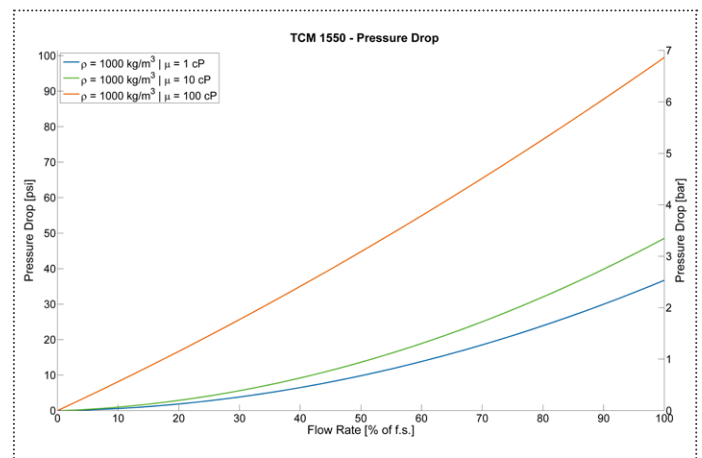
## TEMPERATURE

Process Temperature Range:	-40 °C ... +100 °C [-40 °F ... +212 °F]
Option:	-60 °C ... +200 °C [-76 °F ... +392 °F]
Temperature Accuracy:	$\pm 1$ °C $\pm 0.5\%$ of reading [ $\pm 1.8$ °F $\pm 0.5\%$ of reading]
Temperature Repeatability:	$\pm 0.2$ °C [ $\pm 0.36$ °F]

## MATERIALS (WETTED PARTS)

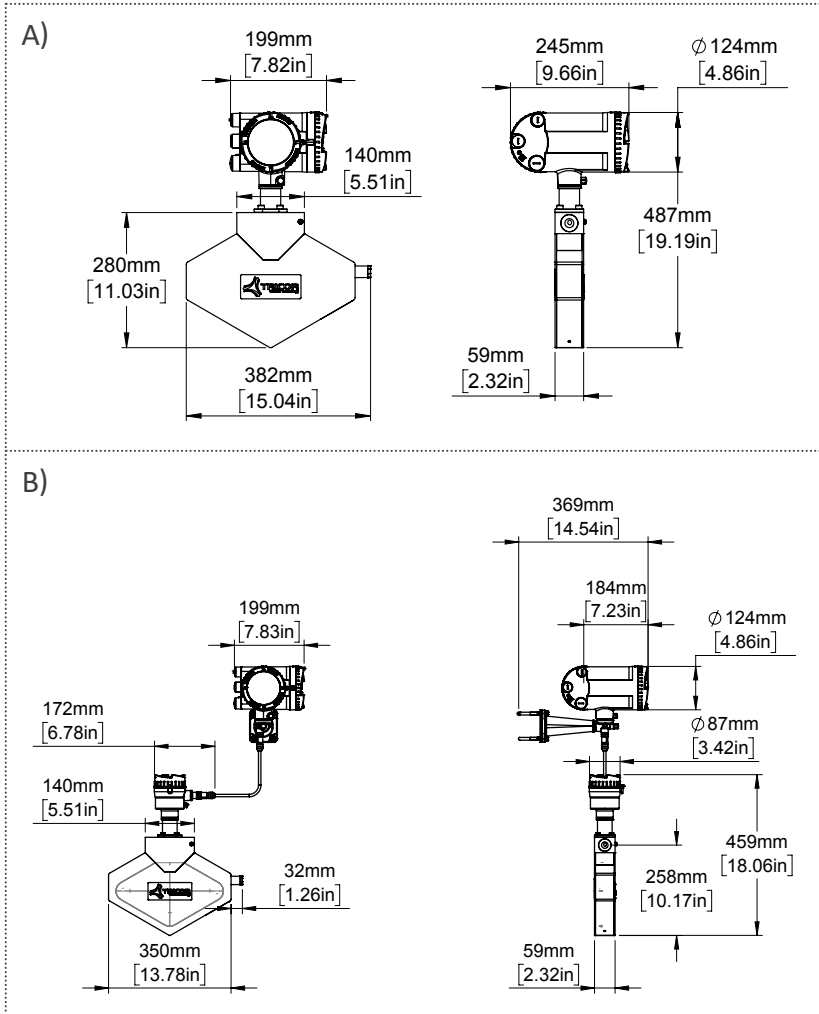
Tubes:	1.4404 [AISI 316L]
Case:	1.4404 [AISI 316L]
Flow Splitter:	1.4404 [AISI 316L]
Brazing Alloy:	BNi-2

<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: 13.2 kg [29.1 lb]

With meter mount in aluminum diecast housing

### B) Remote Version

Weight: 15.7 kg [34.6 lb]

With junction box and remote field mount

### Standard Process Connection

G $\frac{1}{2}$ " thread (others on request)

## EX-CERTIFICATIONS<sup>6)</sup>

ATEX (Ex)	Zone 1: Group IIC or IIB, T2...T6
ATEX (Exn)	Zone 2: II 3G Ex nA IIC T2...T6 Gc
IECEX (Ex)	Zone 1: Group IIC or IIB, T2...T6
cCSAus (Ex1)	Class 1, Division 1: Group A, B, C, D or C, D, T2...T6

## BASIC TRANSMITTER<sup>3)</sup>



## REMOTE MOUNT<sup>5)</sup>



## COMPACT MOUNT<sup>4)</sup>



## DISPLAY ELECTRONICS

Power Supply: 20 ... 27 V DC  $\pm$  10%  
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  
Cable Gland:  $\frac{1}{2}$ " 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> Weight: 1.4 kg [3.1 lb].

<sup>4)</sup> Weight: 4.5 kg [9.9 lb].

<sup>5)</sup> Weight: 7.0 kg [15.4 lb] with 3 m cable.

<sup>6)</sup> Release pending.

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



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