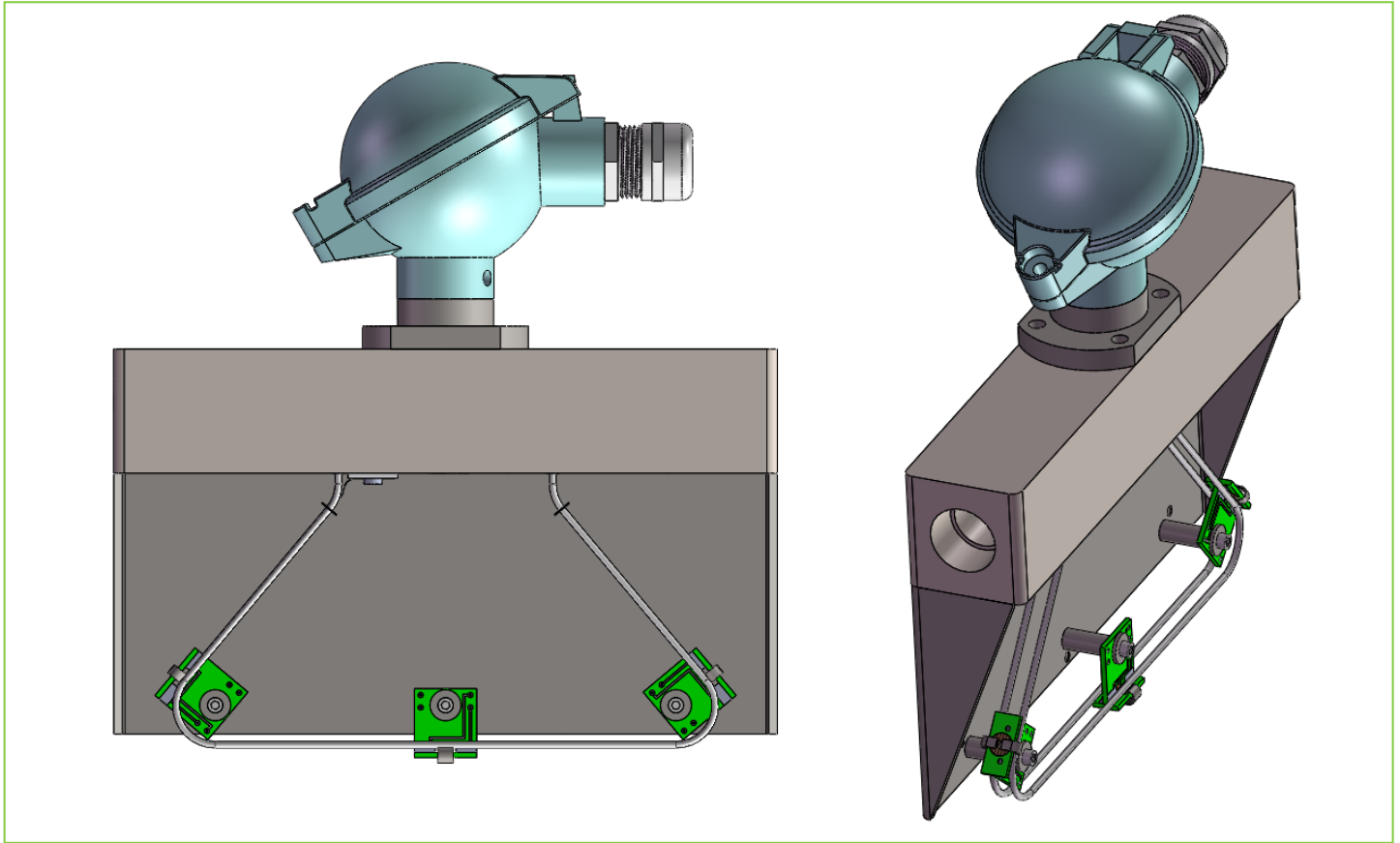


# MT-100 CORIOLIS FLOW METER



## SPECIFICATIONS:

<b>Mass Flow Rate (max.)</b>	100 Kg/Hr (3.67 Lbs/Min)
<b>Volumetric Flow Rate (max.)</b>	0.44 gpm (100 lph)
<b>Tube Diameter</b>	1.6 mm ID
<b>Pressure Rating</b>	5,000 psig (350 bar)

## ACCURACY:

**Basic Accuracy** = 0.1% of flow rate

**Zero Stability** = .01% of full scale, (0.00036 lb/min), (0.01 kg/hr)

Basic accuracy  $\pm 0.10\%$  of flow rate + zero stability \* 100% flow rate.  
(Stated accuracy combines the effects of repeatability, linearity, and hysteresis.)

## DENSITY:

**Density Accuracy:** Liquids:  $\pm 0.002$  kg/ltr

**Density Repeatability:**  $\pm 0.5$  kg/m<sup>3</sup>,  $\pm 0.0005$  g/cm<sup>3</sup>

**Density Range:** Up to 4,500 kg/m<sup>3</sup> (4.5 g/cm<sup>3</sup>, 4.5 S.G.)

## TEMPERATURE:

**Media Temperature Range:** -40 to 400°F (-40 to 204°C)

**Temperature Accuracy:**  $\pm 1.0^\circ\text{C}$

## PROCESS PRESSURE EFFECT:

**Mass Flow Accuracy:**  $\pm 0.001\%$  of rate per PSI

**Density Accuracy:**  $\pm 0.00003$  g/cm<sup>3</sup> per PSI

\*Can be mitigated with option pressure compensation in TCE-8000 electronics.

## MATERIALS OF CONSTRUCTION:

**Wetted Parts:** 316L SS Seamless tubing

**Case:** 304 SS

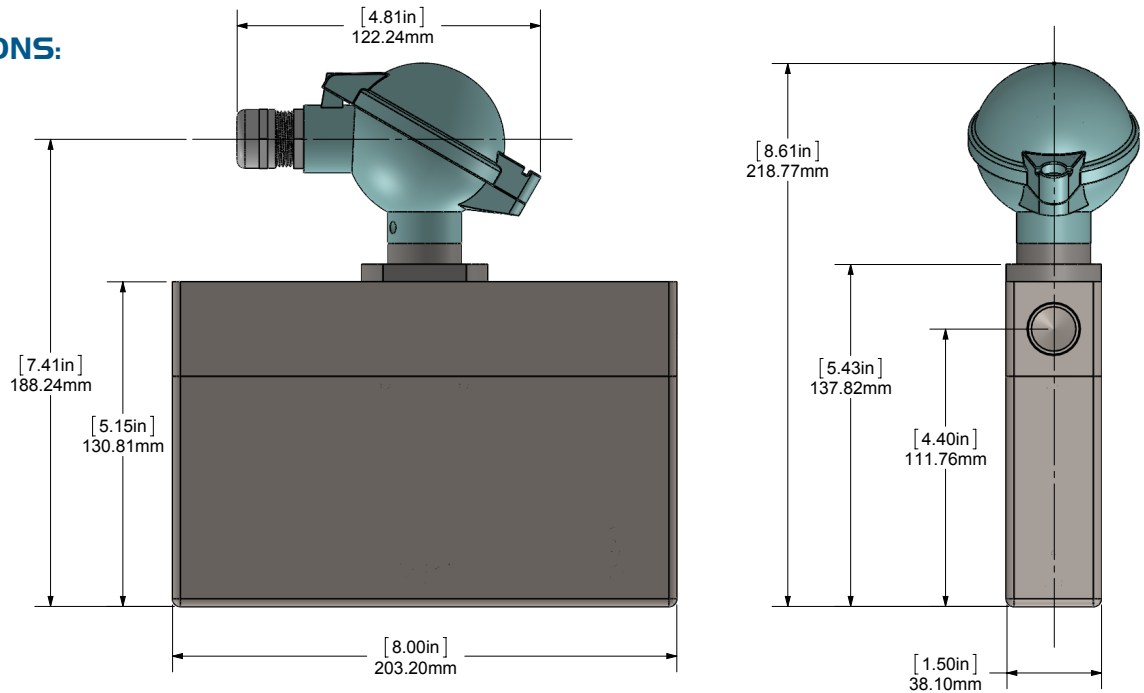
**Flow Splitter:** 316 SS

**Brazing Alloy:** BNi-2



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## METER DIMENSIONS:



## ELECTRONICS:

The TCE-8000 electronic transmitters come in 2 different mounting options: Remote Field Mount and Panel Mount.

**Supply voltage:** 24 VDC,  $\pm 20\%$ , 90-240 VAC

**Programming:** via front keyboard

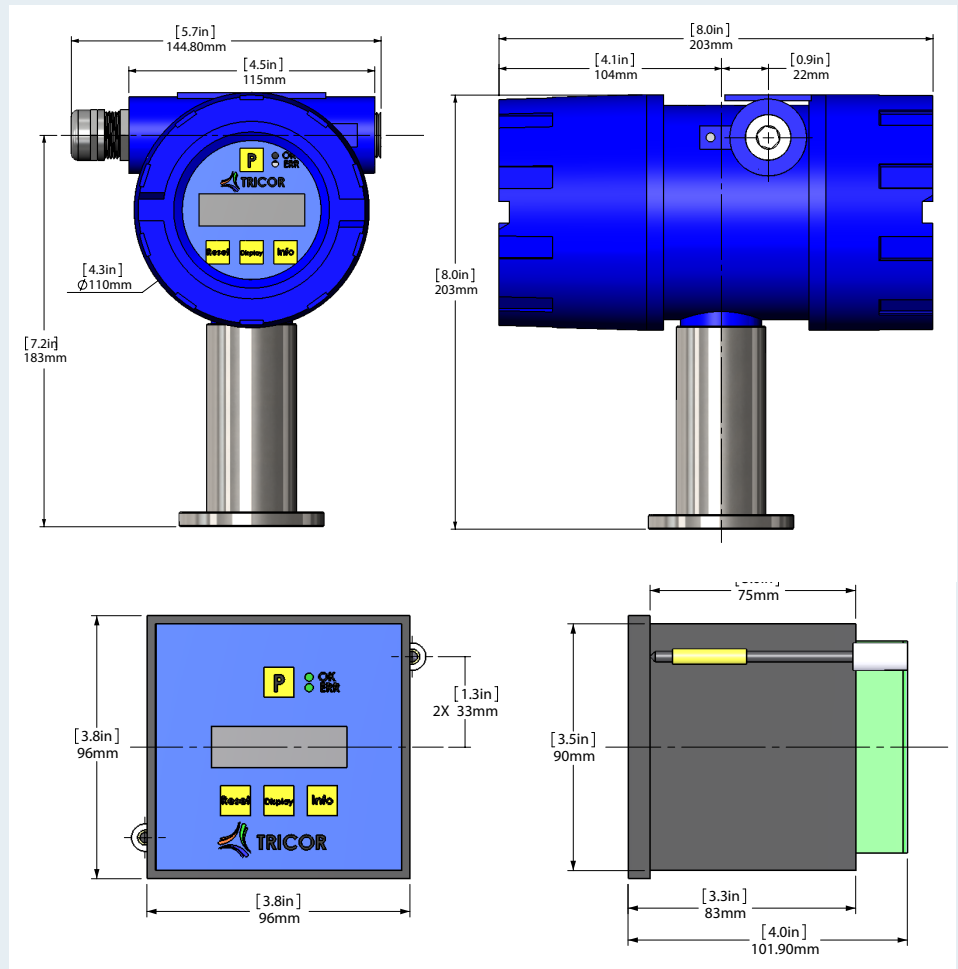
**Interface:** option HART®, Modbus

**Power consumption:** max. 4 W

Analog Outputs:	
Two current outputs	4-20 mA passive, two-wire isolated
Resolution	14 bit
Linearity	+0.05% of full scale
Temperature drift	0.05% per 10°C
Load	< 800 Ohm
Output value	programmable: flow, total, density, temperature

Pulse Output:	
Frequency range	0.5 - 10,000 Hz
Output signal	Active push-pull output of flow rate or cycle output

Status In- and Output:	
Status output	fault out info (push-pull)
Control input	programmable



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**Americas:**  
 AW-Lake Company  
 8809 Industrial Drive  
 Franksville, WI 53126 USA  
 Tel.: 800-850-6110

**Europe:**  
 KEM Koppers  
 Liebigstraße 2  
 85757 Karlsfeld, Germany  
 Tel.: +49 (0)8131 59391-0

**Asia:**  
 TASI Flow  
 Rm.2429, JinYuan Office Building, No. 36  
 CN- BeiYuan Road, Beijing 100012  
 P.R.CHINA  
 Tel.: +86 10 520 037 38