TCE 8000/8100 Compact/Remote Coriolis Transmitter

Features:
> LCD display
> Programmable control inputs
> Analog, pulse and status outputs

Benefits:
> Transmits flow rate, total, density or temperature
> Approvals for use in Hazardous Areas

Specifications:

Display:	back-lit LCD screen, 132 x 32 dot
Supply Voltage:	24 V DC, ±20 % or 90 … 264 V (version dependent)
Programming:	via front keyboard or Windows-based TRICOR configurator program (Modbus)
Interface:	RS485 (Modbus RTU), HART®, Foundation Fieldbus®, other options on request
EMC:	according to EN 61000-6-4 and 61000-6-2
Power Consumption:	max. 6 W
Electrical Connections:	cage clamp terminals
Housing Material:	aluminum diecast (option: 1.4404/AISI 316L)
Protection Class:	IP65 (IP66/IP67 on request)
Weight:	aluminum diecast housing: 3.8 kg/8.3 lb (3 m cable) 1.4404/AISI 316L housing: 6.15 kg/13.56 lb
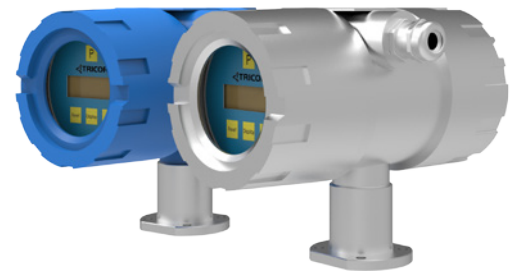
Compact Version

Temperature:

Ambient:	-40 °F ... +158 °F (-40 °C ... +70 °C)
Storage and Transport:	-40 °F ... +176 °F (-40 °C ... +80 °C)

Analog Output:

Current Outputs (2x):	4 ... 20 mA passive, two-wire, isolated
Resolution:	14 bit
Linearity:	±0.05 % of full scale
Temperature Drift:	0.05 % per 10 K
Load:	< 620 Ω (at 24 V supply)
Output Value (programmable):	flow, total, density, temperature

Pulse Output:

Frequency Range:	0.5 - 10,000 Hz
Output Signal:	active push-pull output for flow rate

Status In- and Output:

Status output:	push pull programmable (in TOTAL mode: 0.5 - 100 Hz; in FREQUENCY mode: 0.5 - 10,000 Hz)
Control Input:	programmable

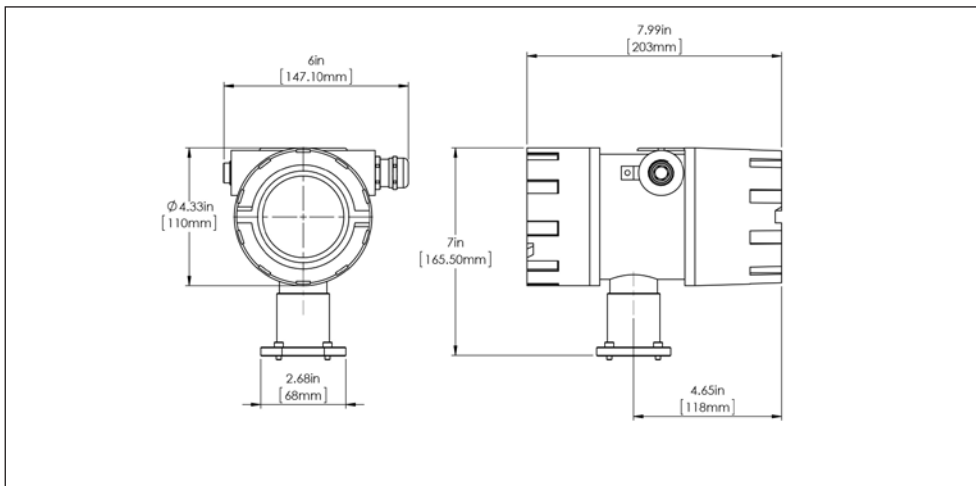Remote Version (wall mount)

Analog Input (option):

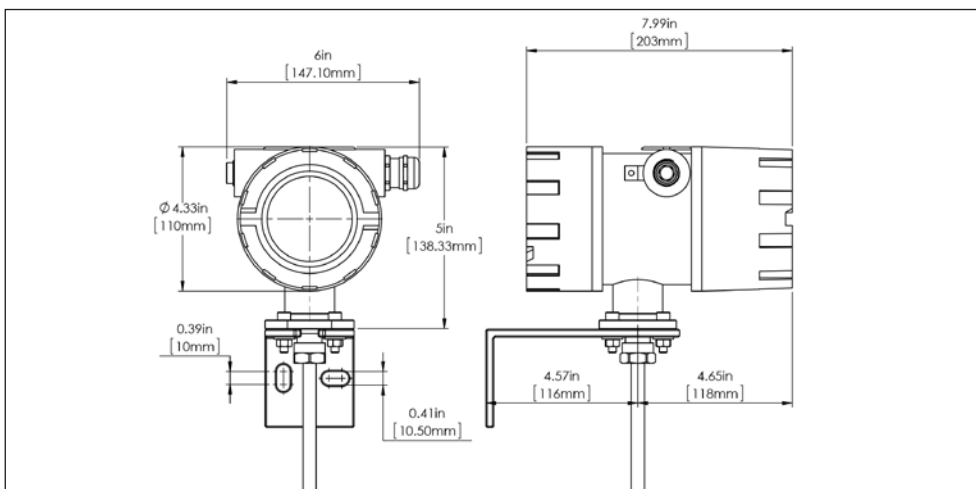|	
Input Type:	4 .. 20 mA active for two-wire passive pressure sensor
Resolution:	12 bit
Linearity:	±0.05 % of full scale
Temperature Drift:	0.05 % per 10 K
Supply Voltage:	> 20 V (at 20 mA sensor current)

TRICOR Coriolis Technology

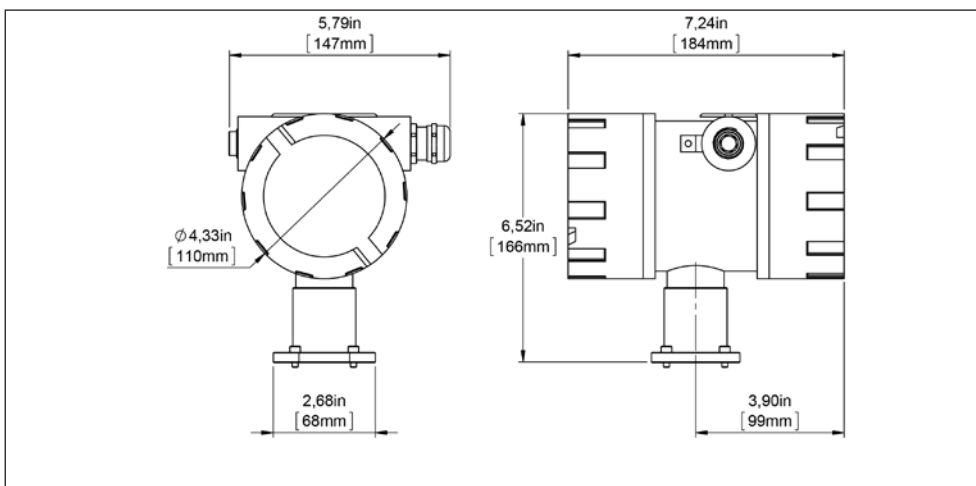## Meter Dimensions:

Meter-Mount Electronics

Wall-Mount Electronics

Meter-Mount Electronics with blind cover

TRICOR
Coriolis Technology

www.tricorflow.com
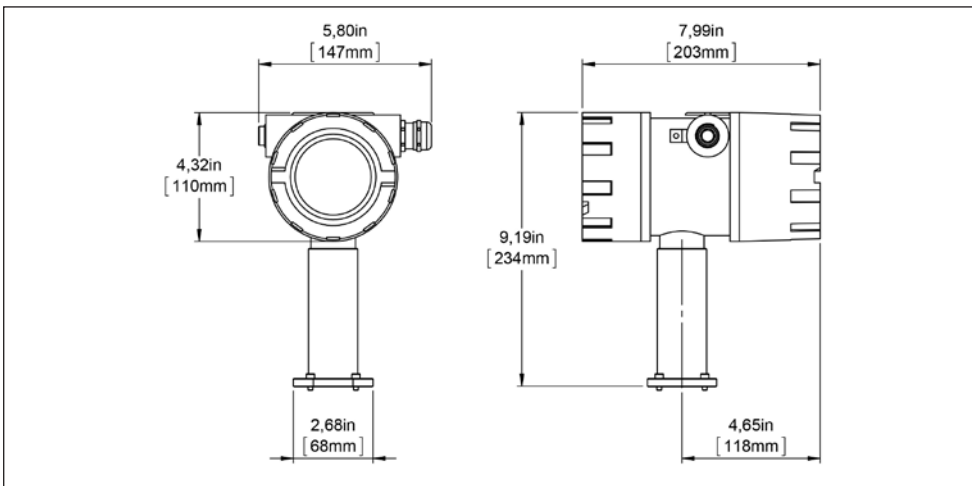
Meter-Mount Electronics High Temperature

Ex Certifications:

ATEX (Ex)	Zone 1: Group IIC or IIB, T2...T4
ATEX (Exn)	Zone 2: II 3G Ex nA IIC T2...T4 Gc
IECEx (Ex)	Zone 1: Group IIC or IIB, T2...T4
cCSAus (Ex1)[1]	Class 1, Division 1: Group A, B, C, D or C, D, T2...T4
ATEX + IECEx + cCSAus triple approval (Ex3)[1] [2]	Zone 1: Group IIC or IIB, T2...T4 and Class 1, Division 1: Group A, B, C, D or C, D, T2...T4
EAC (TR-CU)[1]	Group IIC or IIB, T2 … T4

[1] Ex1, Ex3, EAC (TR-CU) only for aluminum housing.
[2] Only for remote electronics.