AW-LAKE
PROCESS FLOW MEASUREMENT

CORIOLIS MASS
FLOW METERS

TCM 0325 TRICOR Coriolis Mass Flow Meter

Common Uses

The TCM 0325 Coriolis flow meter with a Diamond-shape tube design offers the best overall performance of any tube shape, including the best signal-to-noise ratio and reduced effects from external vibration. This results in improved zero stability. These features plus the robust, no moving parts design make this meter well suited to many applications, including:

- Dosing systems
- Paint processes
- Chemical injection

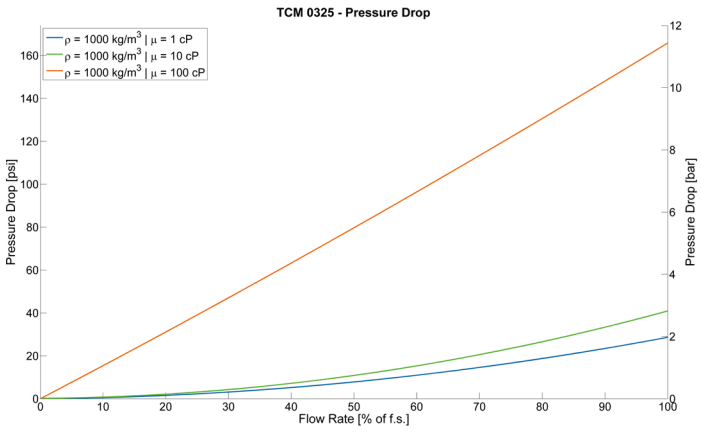
Technical Specifications

Nominal Meter Size	1/8" | DN4 mm
Maximum Flow Rate	325 kg/hr | 12 lbs/min | 325 l/hr | 1.43 gpm | 49 bbl/d (US)
Pressure Rating	2,900 psi | 200 bar
Measuring Accuracy*	±0.1% of flow rate (Liquids) | ±1.0% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) | ±0.25% of flow rate (Gases)
Zero Stability	±0.01% of full scale
Density Range	up to 2,500 kg/m^3 (2.5 g/cm^3)
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C) | Optional: -76°F to 392°F (-60°C to 200°C)
Temperature Accuracy	±1.8°F ±0.5% of reading | ±1.0°C ±0.5% of reading
Temperature Repeatability	±0.36°F | ±0.2°C
Calibration	Comes with a NIST-traceable calibration certificate**
Standard Process Connection	Female thread 0.5" NPT

**Stated flow accuracy combines the effects of repeatability, linearity and hysteresis. The specifications refer to standard conditions (for further information see TCM CLASSIC series manual).*
***Contact factory for custom 10-point calibration.*

Materials of Construction (Wetted Parts)

Tubes	316L Stainless Steel (DIN 1.4404)
Case	316L Stainless Steel (DIN 1.4404)
Flow Splitter	316L Stainless Steel (DIN 1.4404)
Brazing Alloy	BNi-2



AW-LAKE PROCESS FLOW MEASUREMENT

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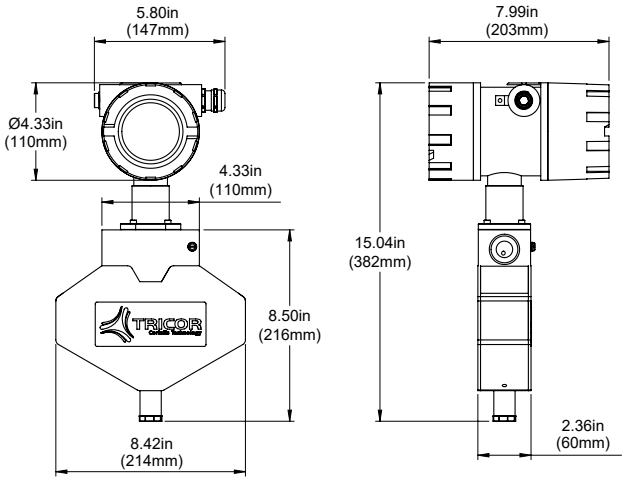
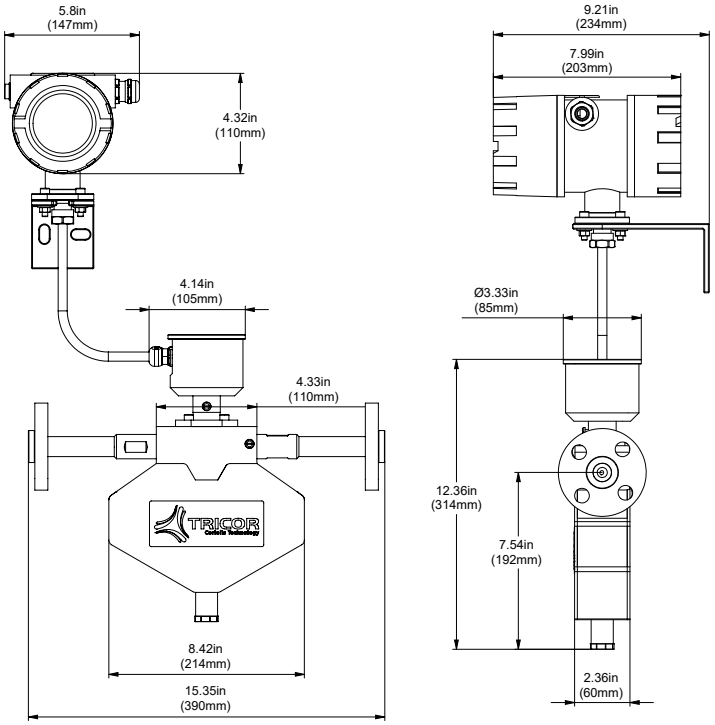
TCM 0325 TRICOR Coriolis Mass Flow Meter

Meter Dimensions* & Weights

**Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).*



Compact Model
(with meter mount in aluminum diecast housing)
Weight: 15.4 lb (7 kg)



Remote Model
(with junction box and remote field mount transmitter)
Weight: 18.3 lb (8.3 kg)

Certifications

CSA*	**<u>Compact</u>:** Cl. I, Div. 1: Groups A-D: T4 (US, Can) Ex db ia IIC T4 Gb (Can) Cl. I, Zone 1, AEx db ia IIC T4 Gb **<u>Remote</u>:** **Sensor**: Cl. I, Div. 1, Groups A-D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can) Cl. I, Zone 0, AEx ia IIC T4...T2 Ga (US) **Transmitter**: Cl. I, Div. 1, Groups A-D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can) Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)

ATEX	**Zone 1: <u>Compact</u>:** II 2G Ex db ia IIC T4 Gb **<u>Remote</u>: Sensor:** II 1G Ex ia IIC T4...T2 Ga **Transmitter:** II 2(1)G Ex db [ia Ga] IIC T4 Gb **Zone 2 (All):** II 3G Ex nA IIC T4 Gc
IECEx	**<u>Compact</u>:** Ex db ia IIC T4 Gb **<u>Remote</u>: Sensor:** Ex ia IIC T4...T2 Ga **Transmitter:** Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2...T4
KGS (Korean)	**<u>Compact:</u>** Ex d (ai) IIC T4 **<u>Remote:</u> Sensor**: Ex ia IIC T4 **Transmitter**: Ex d (ia) IIC T4

**CSA certification is only available in diecast aluminum housing.*

Electronics

Power Supply	24 V DC ±20% or 90 ... 264 V AC
Outputs	Analog, Frequency, Pulse, Status
Interfaces	RS485 RTU (Modbus), HART®
Cable Gland	M20 | 1/2" NPT

3D STEP Models are available upon request of factory. Products may be subject to change without notice. Contact factory for the most up-to-date product information.

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

AW-LAKE
PROCESS FLOW MEASUREMENT

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TCM 0650 TRICOR Coriolis Mass Flow Meter

Common Uses

The TCM 0650 Coriolis flow meter with a Diamond-shape tube design offers the best overall performance of any tube shape, including the best signal-to-noise ratio and reduced effects from external vibration. This results in improved zero stability. These features plus the robust, no moving parts design make this meter well suited to many applications, including:

- Dosing systems
- Paint processes
- Chemical injection

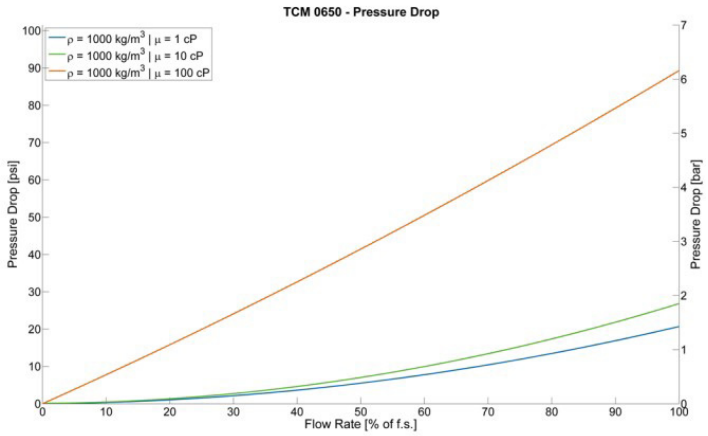
Technical Specifications

Nominal Meter Size	1/8” | DN4 mm
Maximum Flow Rate	650 kg/hr | 24 lbs/min | 650 l/hr | 2.86 gpm | 98 bbl/d (US)
Pressure Rating	2,900 psi | 200 bar
Measuring Accuracy*	±0.1% of flow rate (Liquids) | ±1.0% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) | ±0.25% of flow rate (Gases)
Zero Stability	±0.01% of full scale
Density Range	up to 2,500 kg/m^3 (2.5 g/cm^3)
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C) | Optional: -76°F to 392°F (-60°C to 200°C)
Temperature Accuracy	±1.8°F ±0.5% of reading | ±1.0°C ±0.5% of reading
Temperature Repeatability	±0.36°F | ±0.2°C
Calibration	Comes with a NIST-traceable calibration certificate**
Standard Process Connection	Female thread 0.5” NPT

**Stated flow accuracy combines the effects of repeatability, linearity and hysteresis. The specifications refer to standard conditions (for further information see TCM CLASSIC series manual).*
***Contact factory for custom 10-point calibration.*

Materials of Construction (Wetted Parts)

Tubes	316L Stainless Steel (DIN 1.4404)
Case	316L Stainless Steel (DIN 1.4404)
Flow Splitter	316L Stainless Steel (DIN 1.4404)
Brazing Alloy	BNi-2



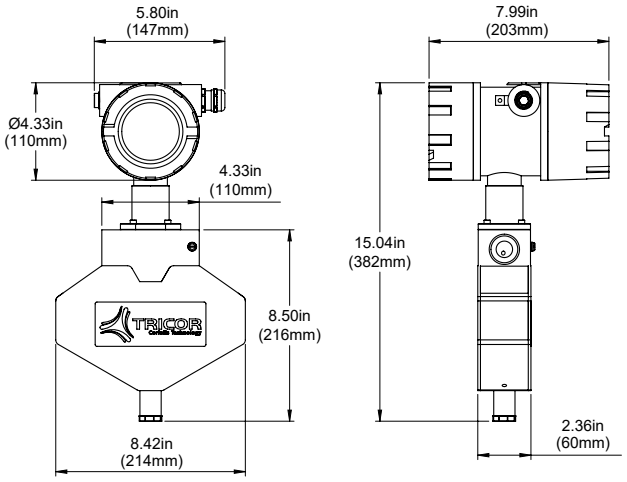
AW-LAKE PROCESS FLOW MEASUREMENT

2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

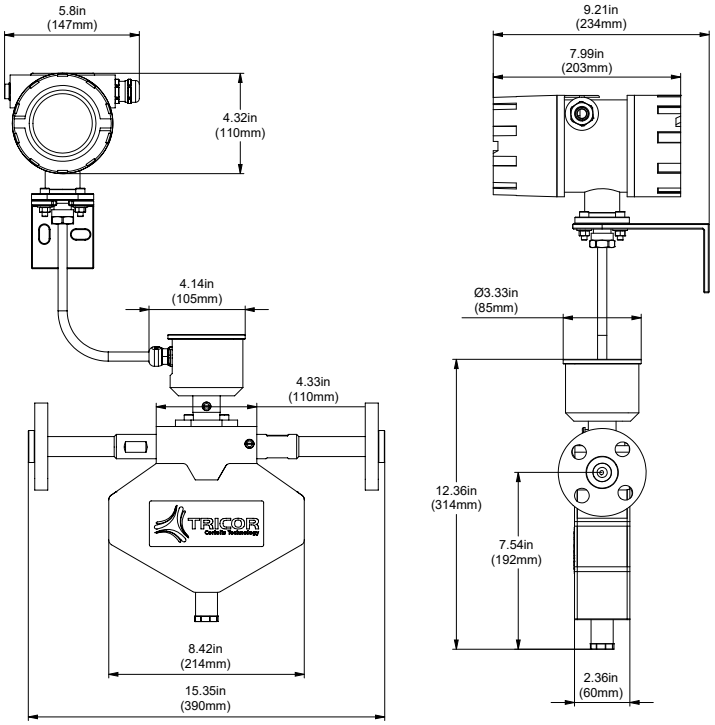
TCM 0650 TRICOR Coriolis Mass Flow Meter

Meter Dimensions* & Weights

**Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).*



Compact Model
(with meter mount in aluminum diecast housing)
Weight: 15.4 lb (7 kg)



Remote Model
(with junction box and remote field mount transmitter)
Weight: 18.3 lb (8.3 kg)

Certifications

CSA*	**Compact:** Cl. I, Div. 1: Groups A-D: T4 (US, Can) Ex db ia IIC T4 Gb (Can) Cl. I, Zone 1, AEx db ia IIC T4 Gb **Remote:** **Sensor**: Cl. I, Div. 1, Groups A-D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can) Cl. I, Zone 0, AEx ia IIC T4...T2 Ga (US) **Transmitter**: Cl. I, Div. 1, Groups A-D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can) Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)

ATEX	**Zone 1: Compact:** II 2G Ex db ia IIC T4 Gb **Remote: Sensor:** II 1G Ex ia IIC T4...T2 Ga **Transmitter:** II 2(1)G Ex db [ia Ga] IIC T4 Gb **Zone 2 (All):** II 3G Ex nA IIC T4 Gc
IECEx	**Compact:** Ex db ia IIC T4 Gb **Remote: Sensor:** Ex ia IIC T4...T2 Ga **Transmitter:** Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2...T4
KGS (Korean)	**Compact:** Ex d (ai) IIC T4 **Remote: Sensor**: Ex ia IIC T4 **Transmitter**: Ex d (ia) IIC T4

**CSA certification is only available in diecast aluminum housing.*

Electronics

Power Supply	24 V DC ±20% or 90 ... 264 V AC
Outputs	Analog, Frequency, Pulse, Status
Interfaces	RS485 RTU (Modbus), HART®
Cable Gland	M20 | 1/2" NPT

3D STEP Models are available upon request of factory. Products may be subject to change without notice. Contact factory for the most up-to-date product information.

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

AW-LAKE
PROCESS FLOW MEASUREMENT

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TCM 1550 TRICOR Coriolis Mass Flow Meter

Common Uses

The TCM 1550 Coriolis flow meter with a Diamond-shape tube design offers the best overall performance of any tube shape, including the best signal-to-noise ratio and reduced effects from external vibration. This results in improved zero stability. These features plus the robust, no moving parts design make this meter well suited to many applications, including:

- Dosing systems
- Paint processes
- Chemical injection

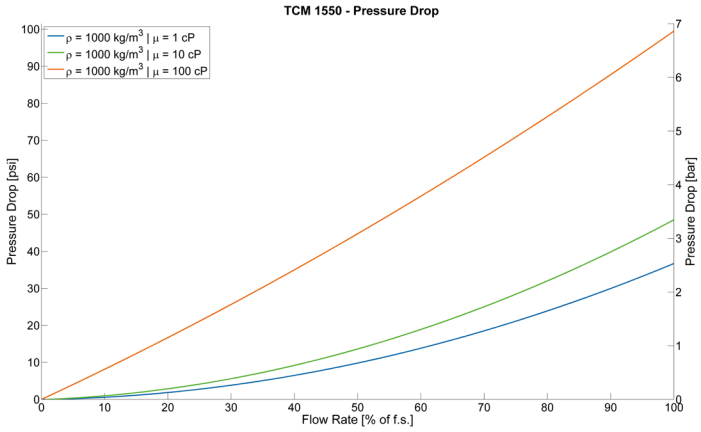
Technical Specifications

Nominal Meter Size	1/8” | DN4 mm
Maximum Flow Rate	1550 kg/hr | 57 lbs/min | 1550 l/hr | 6.82 gpm | 234 bbl/d (US)
Pressure Rating	2,900 psi | 200 bar
Measuring Accuracy*	±0.1% of flow rate (Liquids) | ±1.0% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) | ±0.25% of flow rate (Gases)
Zero Stability	±0.01% of full scale
Density Range	up to 2,500 kg/m^3 (2.5 g/cm^3)
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C) | Optional: -76°F to 392°F (-60°C to 200°C)
Temperature Accuracy	±1.8°F ±0.5% of reading | ±1.0°C ±0.5% of reading
Temperature Repeatability	±0.36°F | ±0.2°C
Calibration	Comes with a NIST-traceable calibration certificate**
Standard Process Connection	Female thread 0.5” NPT

**Stated flow accuracy combines the effects of repeatability, linearity and hysteresis. The specifications refer to standard conditions (for further information see TCM CLASSIC series manual).*
***Contact factory for custom 10-point calibration.*

Materials of Construction (Wetted Parts)

Tubes	316L Stainless Steel (DIN 1.4404)
Case	316L Stainless Steel (DIN 1.4404)
Flow Splitter	316L Stainless Steel (DIN 1.4404)
Brazing Alloy	BNi-2



AW-LAKE
PROCESS FLOW MEASUREMENT

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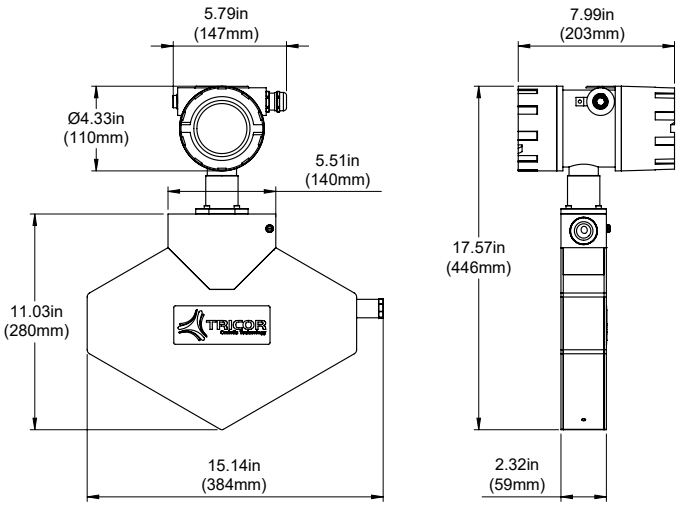
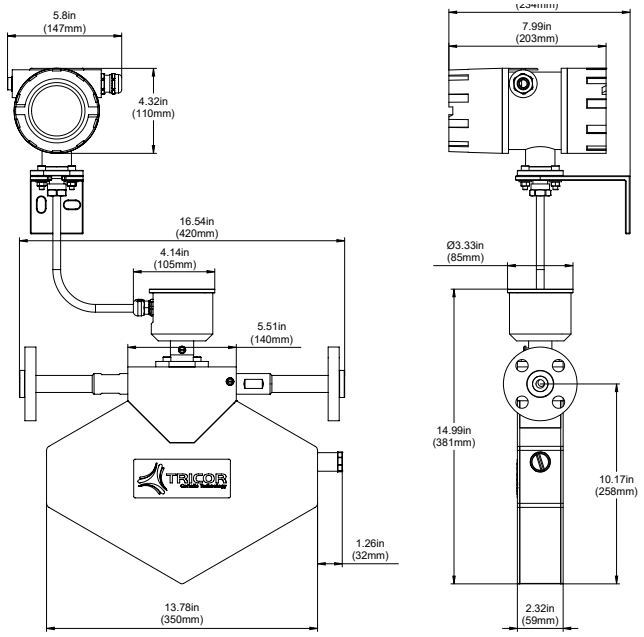
TCM 1550 TRICOR Coriolis Mass Flow Meter

Meter Dimensions* & Weights

**Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).*



Compact Model
(with meter mount in aluminum diecast housing)
Weight: 15.4 lb (7 kg)



Remote Model
(with junction box and remote field mount transmitter)
Weight: 18.3 lb (8.3 kg)

Certifications

CSA*	**Compact:** Cl. I, Div. 1: Groups A-D: T4 (US, Can) Ex db ia IIC T4 Gb (Can) Cl. I, Zone 1, AEx db ia IIC T4 Gb **Remote:** **Sensor**: Cl. I, Div. 1, Groups A-D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can) Cl. I, Zone 0, AEx ia IIC T4...T2 Ga (US) **Transmitter**: Cl. I, Div. 1, Groups A-D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can) Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)

ATEX	**Zone 1: Compact:** II 2G Ex db ia IIC T4 Gb **Remote: Sensor:** II 1G Ex ia IIC T4...T2 Ga **Transmitter:** II 2(1)G Ex db [ia Ga] IIC T4 Gb **Zone 2 (All):** II 3G Ex nA IIC T4 Gc
IECEx	**Compact:** Ex db ia IIC T4 Gb **Remote: Sensor:** Ex ia IIC T4...T2 Ga **Transmitter:** Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2...T4
KGS (Korean)	**Compact:** Ex d (ai) IIC T4 **Remote: Sensor**: Ex ia IIC T4 **Transmitter**: Ex d (ia) IIC T4

**CSA certification is only available in diecast aluminum housing.*

Electronics

Power Supply	24 V DC ±20% or 90 ... 264 V AC
Outputs	Analog, Frequency, Pulse, Status
Interfaces	RS485 RTU (Modbus), HART®
Cable Gland	M20 | 1/2" NPT

3D STEP Models are available upon request of factory. Products may be subject to change without notice. Contact factory for the most up-to-date product information.

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

AW-LAKE
PROCESS FLOW MEASUREMENT

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TCM 3100 TRICOR Coriolis Mass Flow Meter

Common Uses

The TCM 3100 Coriolis flow meter with a Diamond-shape tube design offers the best overall performance of any tube shape, including the best signal-to-noise ratio and reduced effects from external vibration. This results in improved zero stability. These features plus the robust, no moving parts design make this meter well suited to many applications, including:

- Fuel consumption monitoring
- Paint processes
- Additive blending

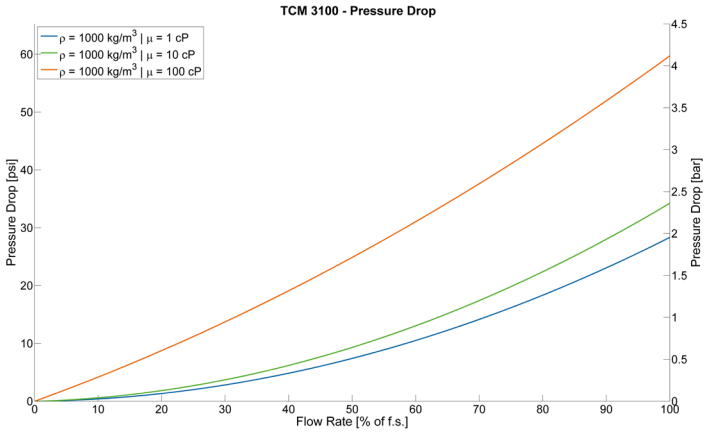
Technical Specifications

Nominal Meter Size	1/4” | DN6 mm
Maximum Flow Rate	3100 kg/hr | 114 lbs/min | 3100 l/hr | 13.65 gpm | 468 bbl/d (US)
Pressure Rating	2,900 psi | 200 bar
Measuring Accuracy*	±0.1% of flow rate (Liquids) | ±1.0% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) | ±0.25% of flow rate (Gases)
Zero Stability	±0.01% of full scale
Density Range	up to 2,500 kg/m^3 (2.5 g/cm^3)
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C) | Optional: -76°F to 392°F (-60°C to 200°C)
Temperature Accuracy	±1.8°F ±0.5% of reading | ±1.0°C ±0.5% of reading
Temperature Repeatability	±0.36°F | ±0.2°C
Calibration	Comes with a NIST-traceable calibration certificate**
Standard Process Connection	Female thread 0.5” NPT

**Stated flow accuracy combines the effects of repeatability, linearity and hysteresis. The specifications refer to standard conditions (for further information see TCM CLASSIC series manual).*
***Contact factory for custom 10-point calibration.*

Materials of Construction (Wetted Parts)

Tubes	316L Stainless Steel (DIN 1.4404)
Case	316L Stainless Steel (DIN 1.4404)
Flow Splitter	316L Stainless Steel (DIN 1.4404)
Brazing Alloy	BNi-2



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PROCESS FLOW MEASUREMENT

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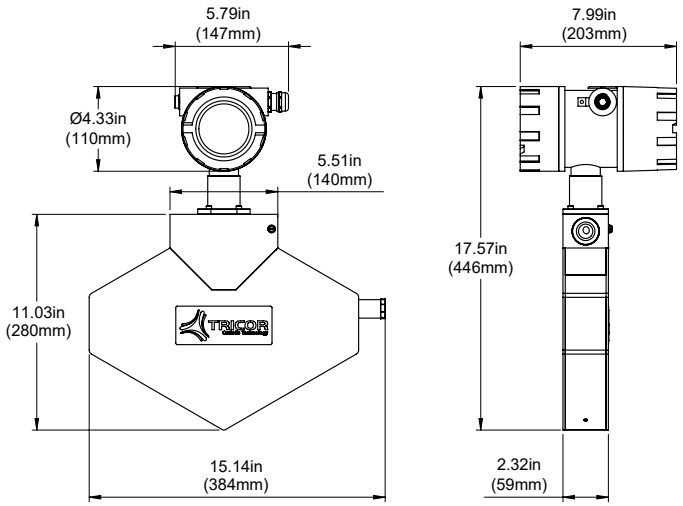
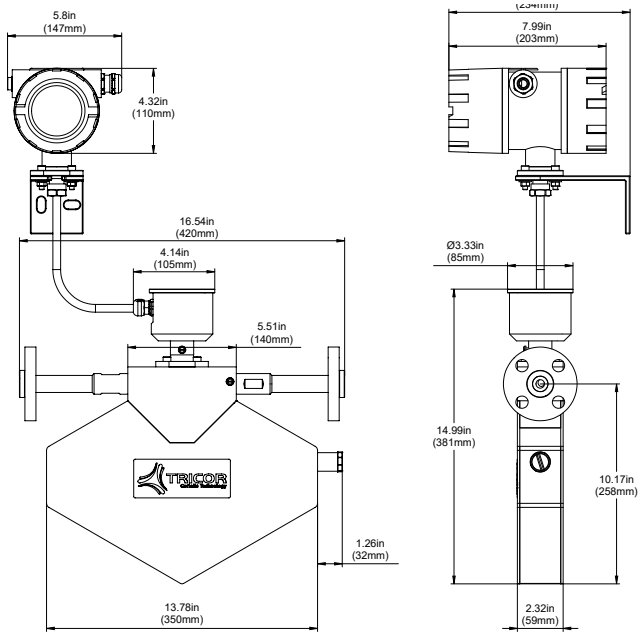
TCM 3100 TRICOR Coriolis Mass Flow Meter

Meter Dimensions* & Weights

**Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).*





Compact Model
(with meter mount in aluminum diecast housing)
Weight: 15.4 lb (7 kg)

Remote Model
(with junction box and remote field mount transmitter)
Weight: 18.3 lb (8.3 kg)

Certifications

CSA*	**Compact:** Cl. I, Div. 1: Groups A-D: T4 (US, Can) Ex db ia IIC T4 Gb (Can) Cl. I, Zone 1, AEx db ia IIC T4 Gb **Remote:** **Sensor**: Cl. I, Div. 1, Groups A-D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can) Cl. I, Zone 0, AEx ia IIC T4...T2 Ga (US) **Transmitter**: Cl. I, Div. 1, Groups A-D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can) Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)

ATEX	**Zone 1: Compact:** II 2G Ex db ia IIC T4 Gb **Remote: Sensor:** II 1G Ex ia IIC T4...T2 Ga **Transmitter:** II 2(1)G Ex db [ia Ga] IIC T4 Gb **Zone 2 (All):** II 3G Ex nA IIC T4 Gc
IECEx	**Compact:** Ex db ia IIC T4 Gb **Remote: Sensor:** Ex ia IIC T4...T2 Ga **Transmitter:** Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2...T4
KGS (Korean)	**Compact:** Ex d (ai) IIC T4 **Remote: Sensor**: Ex ia IIC T4 **Transmitter**: Ex d (ia) IIC T4

**CSA certification is only available in diecast aluminum housing.*

Electronics

Power Supply	24 V DC ±20% or 90 ... 264 V AC
Outputs	Analog, Frequency, Pulse, Status
Interfaces	RS485 RTU (Modbus), HART®
Cable Gland	M20 | 1/2" NPT

3D STEP Models are available upon request of factory. Products may be subject to change without notice. Contact factory for the most up-to-date product information.

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

AW-LAKE
PROCESS FLOW MEASUREMENT

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TCM 5500 TRICOR Coriolis Mass Flow Meter

Common Uses

The TCM 5500 Coriolis flow meter is a U-shape tube design and is rated for process pressures up to 345 bar (5000 psi). The U tube design has great overall accuracy, zero stability, and pressure drop. The simple self-draining U-shape tube provides for easy cleaning & flushing. These features plus the robust, no moving parts design make this meter well suited to many applications, including:

- Hydraulic oil

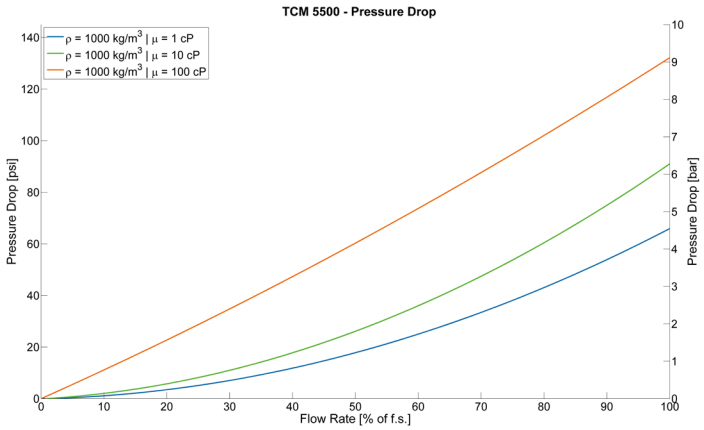
Technical Specifications

Nominal Meter Size	1/2" | DN15 mm
Maximum Flow Rate	5500 kg/hr | 202 lbs/min | 5500 l/hr | 24.22 gpm | 830 bbl/d (US)
Pressure Rating	5,000 psi | 345 bar
Measuring Accuracy*	±0.1% of flow rate (Liquids) | ±1.0% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) | ±0.25% of flow rate (Gases)
Zero Stability	±0.01% of full scale
Density Range	up to 2,500 kg/m^3 (2.5 g/cm^3)
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C) | Optional: -76°F to 392°F (-60°C to 200°C)
Temperature Accuracy	±1.8°F ±0.5% of reading | ±1.0°C ±0.5% of reading
Temperature Repeatability	±0.36°F | ±0.2°C
Calibration	Comes with a NIST-traceable calibration certificate**
Standard Process Connection	1/2" to 1" 150lb to 900lb ANSI flanges (consult factory for additional flange options)

**Stated flow accuracy combines the effects of repeatability, linearity and hysteresis. The specifications refer to standard conditions (for further information see TCM CLASSIC series manual).*
***Contact factory for custom 10-point calibration.*

Materials of Construction (Wetted Parts)

Tubes	316L Stainless Steel (DIN 1.4404)
Case	316L Stainless Steel (DIN 1.4404)
Flow Splitter	316L Stainless Steel (DIN 1.4404)
Brazing Alloy	BNi-2



AW-LAKE
PROCESS FLOW MEASUREMENT

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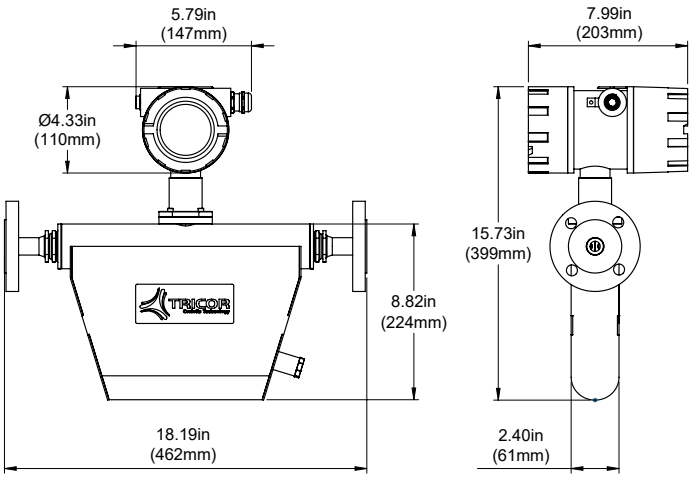
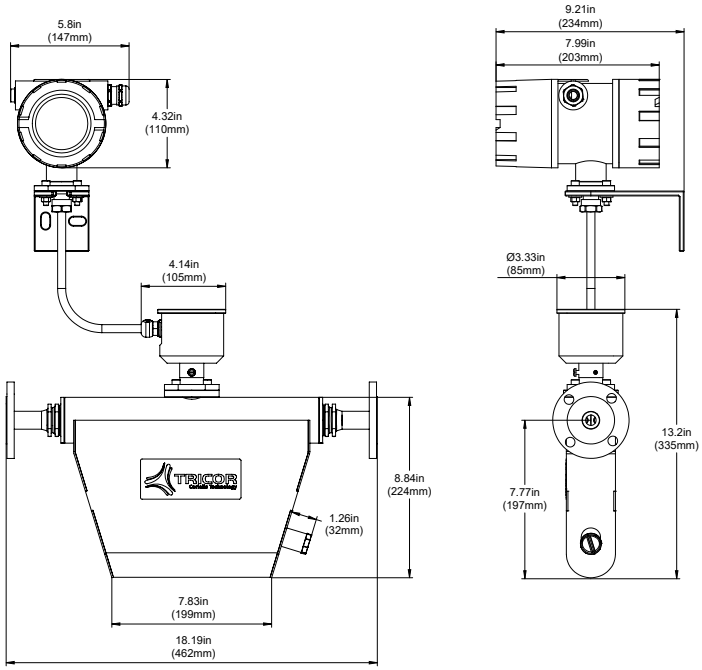
TCM 5500 TRICOR Coriolis Mass Flow Meter

Meter Dimensions* & Weights

**Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).*



Compact Model
(with meter mount in aluminum diecast housing)
Weight: 18.7 lb (8.5 kg)



Remote Model
(with junction box and remote field mount transmitter)
Weight: 21.6 lb (9.8 kg)

Certifications

CSA*	**Compact:** Cl. I, Div. 1: Groups A-D: T4 (US, Can) Ex db ia IIC T4 Gb (Can) Cl. I, Zone 1, AEx db ia IIC T4 Gb **Remote:** **Sensor**: Cl. I, Div. 1, Groups A-D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can) Cl. I, Zone 0, AEx ia IIC T4...T2 Ga (US) **Transmitter**: Cl. I, Div. 1, Groups A-D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can) Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)

ATEX	**Zone 1: Compact:** II 2G Ex db ia IIC T4 Gb **Remote: Sensor:** II 1G Ex ia IIC T4...T2 Ga **Transmitter:** II 2(1)G Ex db [ia Ga] IIC T4 Gb **Zone 2 (All):** II 3G Ex nA IIC T4 Gc
IECEx	**Compact:** Ex db ia IIC T4 Gb **Remote: Sensor:** Ex ia IIC T4...T2 Ga **Transmitter:** Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2...T4
KGS (Korean)	**Compact:** Ex d (ai) IIC T4 **Remote: Sensor**: Ex ia IIC T4 **Transmitter**: Ex d (ia) IIC T4

**CSA certification is only available in diecast aluminum housing.*

Electronics

Power Supply	24 V DC ±20% or 90 ... 264 V AC
Outputs	Analog, Frequency, Pulse, Status
Interfaces	RS485 RTU (Modbus), HART®
Cable Gland	M20 | 1/2" NPT

3D STEP Models are available upon request of factory. Products may be subject to change without notice. Contact factory for the most up-to-date product information.

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

AW-LAKE
PROCESS FLOW MEASUREMENT

2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

TCM 7900 TRICOR Coriolis Mass Flow Meter

Common Uses

The TCM 7900 Coriolis flow meter with a U tube design offers the best overall performance of any tube shape, including the best signal-to-noise ratio and reduced effects from external vibration. This results in improved zero stability. These features plus the robust, no moving parts design make this meter well suited to many applications, including:

- Hydraulic oil
- Coolants
- Pump monitoring

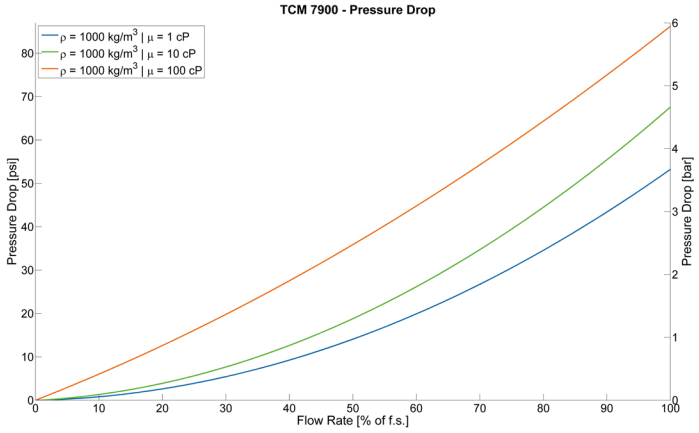
Technical Specifications

Nominal Meter Size	1/2” | DN15 mm
Maximum Flow Rate	7900 kg/hr | 290 lbs/min | 7900 l/hr | 34.78 gpm | 1,193 bbl/d (US)
Pressure Rating	1450 psi | 100 bar
Measuring Accuracy*	±0.1% of flow rate (Liquids) | ±1.0% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) | ±0.25% of flow rate (Gases)
Zero Stability	±0.01% of full scale
Density Range	up to 2,500 kg/m^3 (2.5 g/cm^3)
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C) | Optional: -76°F to 392°F (-60°C to 200°C)
Temperature Accuracy	±1.8°F ±0.5% of reading | ±1.0°C ±0.5% of reading
Temperature Repeatability	±0.36°F | ±0.2°C
Calibration	Comes with a NIST-traceable calibration certificate**
Standard Process Connection	1/2” to 1” 150lb to 900lb ANSI flanges (consult factory for additional flange options)

**Stated flow accuracy combines the effects of repeatability, linearity and hysteresis. The specifications refer to standard conditions (for further information see TCM CLASSIC series manual).*
***Contact factory for custom 10-point calibration.*

Materials of Construction (Wetted Parts)

Tubes	316L Stainless Steel (DIN 1.4404)
Case	316L Stainless Steel (DIN 1.4404)
Flow Splitter	316L Stainless Steel (DIN 1.4404)
Brazing Alloy	BNi-2



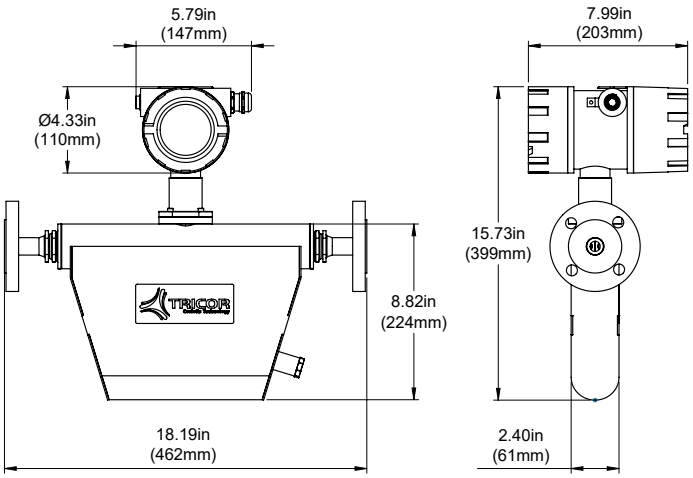
AW-LAKE PROCESS FLOW MEASUREMENT

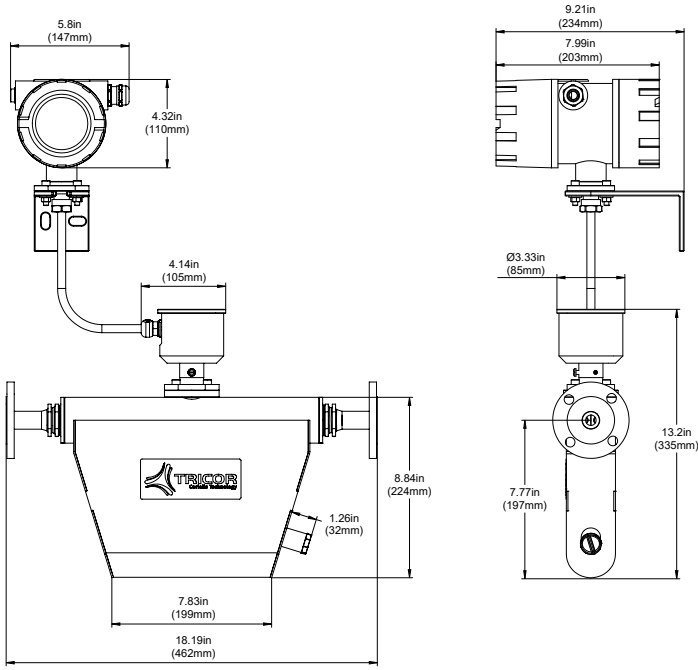
2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

TCM 7900 TRICOR Coriolis Mass Flow Meter

Meter Dimensions* & Weights

**Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).*





Compact Model
(with meter mount in aluminum diecast housing)
Weight: 18.7 lb (8.5 kg)

Remote Model
(with junction box and remote field mount transmitter)
Weight: 21.6 lb (9.8 kg)

Certifications

CSA*	**Compact:** Cl. I, Div. 1: Groups A-D: T4 (US, Can) Ex db ia IIC T4 Gb (Can) Cl. I, Zone 1, AEx db ia IIC T4 Gb **Remote:** **Sensor**: Cl. I, Div. 1, Groups A-D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can) Cl. I, Zone 0, AEx ia IIC T4...T2 Ga (US) **Transmitter**: Cl. I, Div. 1, Groups A-D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can) Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)

ATEX	**Zone 1: Compact:** II 2G Ex db ia IIC T4 Gb **Remote: Sensor:** II 1G Ex ia IIC T4...T2 Ga **Transmitter:** II 2(1)G Ex db [ia Ga] IIC T4 Gb **Zone 2 (All):** II 3G Ex nA IIC T4 Gc
IECEx	**Compact:** Ex db ia IIC T4 Gb **Remote: Sensor:** Ex ia IIC T4...T2 Ga **Transmitter:** Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2...T4
KGS (Korean)	**Compact:** Ex d (ai) IIC T4 **Remote: Sensor**: Ex ia IIC T4 **Transmitter**: Ex d (ia) IIC T4

**CSA certification is only available in diecast aluminum housing.*

Electronics

Power Supply	24 V DC ±20% or 90 ... 264 V AC
Outputs	Analog, Frequency, Pulse, Status
Interfaces	RS485 RTU (Modbus), HART®
Cable Gland	M20 | 1/2" NPT

3D STEP Models are available upon request of factory. Products may be subject to change without notice. Contact factory for the most up-to-date product information.

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

AW-LAKE
PROCESS FLOW MEASUREMENT

2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

TCM 28K TRICOR Coriolis Mass Flow Meter

Common Uses

The TCM 28K Coriolis flow meter with a U-shape tube design offers the best overall performance of any tube shape, including the best signal-to-noise ratio and reduced effects from external vibration. This results in improved zero stability. These features plus the robust, no moving parts design make this meter well suited to many applications, including:

- Hydraulic oil
- Fuel consumption monitoring
- Crude oil

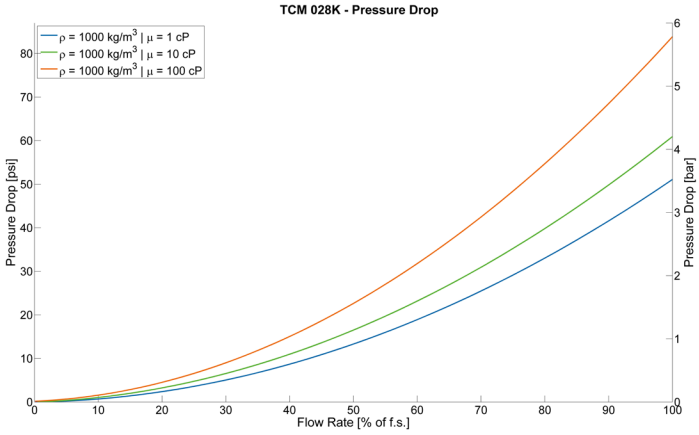
Technical Specifications

Nominal Meter Size	1" | DN25 mm
Maximum Flow Rate	28,000 kg/hr | 1,029 lbs/min | 28,000 l/hr | 123.3 gpm | 4,227 bbl/d (US)
Pressure Rating	1450 psi | 100 bar
Measuring Accuracy*	±0.1% of flow rate (Liquids) | ±1.0% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) | ±0.25% of flow rate (Gases)
Zero Stability	±0.01% of full scale
Density Range	up to 2,500 kg/m^3 (2.5 g/cm^3)
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C) | Optional: -76°F to 392°F (-60°C to 200°C)
Temperature Accuracy	±1.8°F ±0.5% of reading | ±1.0°C ±0.5% of reading
Temperature Repeatability	±0.36°F | ±0.2°C
Calibration	Comes with a NIST-traceable calibration certificate**
Standard Process Connection	1" to 2" 150lb to 900lb ANSI flanges (consult factory for additional flange options)

**Stated flow accuracy combines the effects of repeatability, linearity and hysteresis. The specifications refer to standard conditions (for further information see TCM CLASSIC series manual).*
***Contact factory for custom 10-point calibration.*

Materials of Construction (Wetted Parts)

Tubes	316L Stainless Steel (DIN 1.4404)
Case	316L Stainless Steel (DIN 1.4404)
Flow Splitter	316L Stainless Steel (DIN 1.4404)
Brazing Alloy	BNi-2



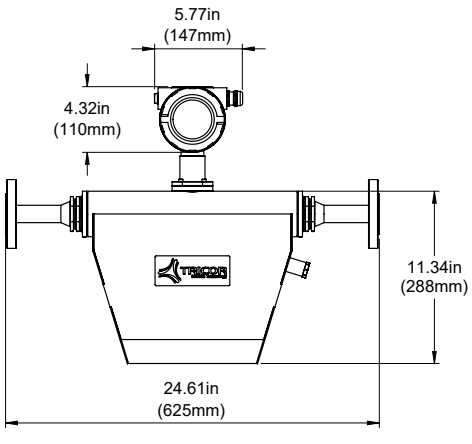
AW-LAKE
PROCESS FLOW MEASUREMENT

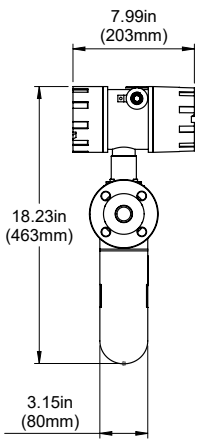
2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

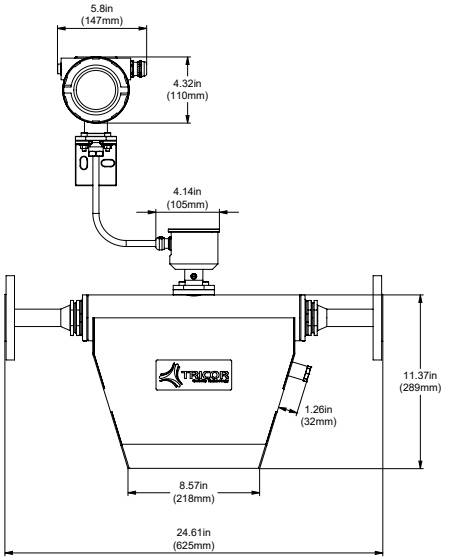
TCM 28K TRICOR Coriolis Mass Flow Meter

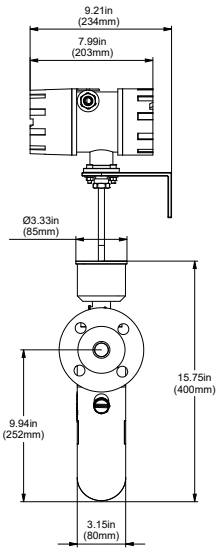
Meter Dimensions* & Weights

**Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).*









Compact Model
(with meter mount in aluminum diecast housing)
Weight: 28.9 lb (13.1 kg)

Remote Model
(with junction box and remote field mount transmitter)
Weight: 31.7 lb (14.4 kg)

Certifications

CSA*	**Compact:** Cl. I, Div. 1: Groups C & D: T4 (US, Can) Ex db ia IIC T4 Gb (Can) Cl. I, Zone 1, AEx db ia IIC T4 Gb **Remote:** **Sensor**: Cl. I, Div. 1, Groups C & D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can) Cl. I, Zone 0, AEx ia IIC T4...T2 Ga (US) **Transmitter**: Cl. I, Div. 1, Groups C & D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can) Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)

**CSA certification is only available in diecast aluminum housing.*

ATEX	**Zone 1: Compact:** II 2G Ex db ia IIC T4 Gb **Remote: Sensor:** II 1G Ex ia IIC T4...T2 Ga **Transmitter:** II 2(1)G Ex db [ia Ga] IIC T4 Gb **Zone 2 (All):** II 3G Ex nA IIC T4 Gc
IECEx	**Compact:** Ex db ia IIC T4 Gb **Remote: Sensor:** Ex ia IIC T4...T2 Ga **Transmitter:** Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2...T4
KGS (Korean)	**Compact:** Ex d (ai) IIC T4 **Remote: Sensor**: Ex ia IIC T4 **Transmitter**: Ex d (ia) IIC T4

Electronics

Power Supply	24 V DC ±20% or 90 ... 264 V AC
Outputs	Analog, Frequency, Pulse, Status
Interfaces	RS485 RTU (Modbus), HART®
Cable Gland	M20 | 1/2" NPT

3D STEP Models are available upon request of factory. Products may be subject to change without notice. Contact factory for the most up-to-date product information.

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

AW-LAKE
PROCESS FLOW MEASUREMENT

2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

TCM 65K TRICOR Coriolis Mass Flow Meter

Common Uses

The TCM 065K Coriolis flow meter with a U tube design offers the best overall performance of any tube shape, including the best signal-to-noise ratio and reduced effects from external vibration. This results in improved zero stability. These features plus the robust, no moving parts design make this meter well suited to many applications, including:

- Water measurement
- Various fuels
- Crude oil

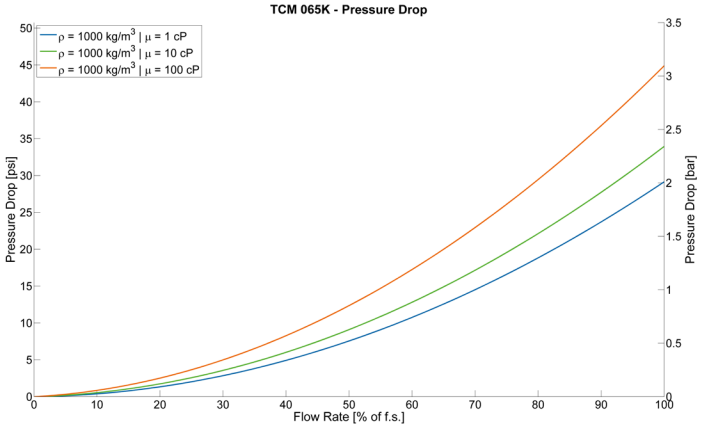
Technical Specifications

Nominal Meter Size	1-1/2" | DN540 mm
Maximum Flow Rate	65,000 kg/hr | 2,388 lbs/min | 65,000 l/hr | 286.2 gpm | 9,812 bbl/d (US)
Pressure Rating	1450 psi | 100 bar
Measuring Accuracy*	±0.1% of flow rate (Liquids) | ±1.0% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) | ±0.25% of flow rate (Gases)
Zero Stability	±0.01% of full scale
Density Range	up to 2,500 kg/m^3 (2.5 g/cm^3)
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C) | Optional: -76°F to 392°F (-60°C to 200°C)
Temperature Accuracy	±1.8°F ±0.5% of reading | ±1.0°C ±0.5% of reading
Temperature Repeatability	±0.36°F | ±0.2°C
Calibration	Comes with a NIST-traceable calibration certificate**
Standard Process Connection	2" to 3" 150lb to 900lb ANSI flanges (consult factory for additional flange options)

**Stated flow accuracy combines the effects of repeatability, linearity and hysteresis. The specifications refer to standard conditions (for further information see TCM CLASSIC series manual).*
***Contact factory for custom 10-point calibration.*

Materials of Construction (Wetted Parts)

Tubes	316L Stainless Steel (DIN 1.4404)
Case	316L Stainless Steel (DIN 1.4404)
Flow Splitter	316L Stainless Steel (DIN 1.4404)
Brazing Alloy	BNi-2



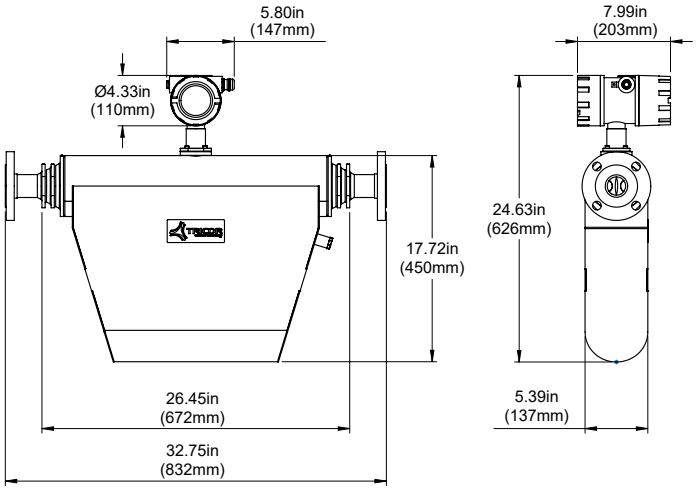
AW-LAKE
PROCESS FLOW MEASUREMENT

2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

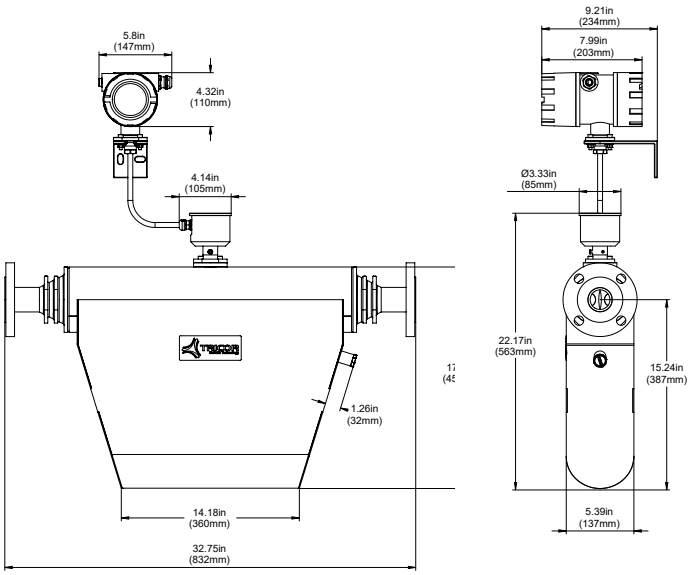
TCM 65K TRICOR Coriolis Mass Flow Meter

Meter Dimensions* & Weights

**Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).*



Compact Model
(with meter mount in aluminum diecast housing)
Weight: 81.9 lb (35.2 kg)



Remote Model
(with junction box and remote field mount transmitter)
Weight: 84.7 lb (36.5 kg)

Certifications

CSA*	**Compact:** Cl. I, Div. 1: Groups C & D: T4 (US, Can) Ex db ia IIC T4 Gb (Can) Cl. I, Zone 1, AEx db ia IIC T4 Gb **Remote:** **Sensor**: Cl. I, Div. 1, Groups C & D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can) Cl. I, Zone 0, AEx ia IIC T4...T2 Ga (US) **Transmitter**: Cl. I, Div. 1, Groups C & D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can) Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)

**CSA certification is only available in diecast aluminum housing.*

ATEX	**Zone 1: Compact:** II 2G Ex db ia IIC T4 Gb **Remote: Sensor:** II 1G Ex ia IIC T4...T2 Ga **Transmitter:** II 2(1)G Ex db [ia Ga] IIC T4 Gb **Zone 2 (All):** II 3G Ex nA IIC T4 Gc
IECEx	**Compact:** Ex db ia IIC T4 Gb **Remote: Sensor:** Ex ia IIC T4...T2 Ga **Transmitter:** Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2...T4
KGS (Korean)	**Compact:** Ex d (ai) IIC T4 **Remote: Sensor**: Ex ia IIC T4 **Transmitter**: Ex d (ia) IIC T4

Electronics

Power Supply	24 V DC ±20% or 90 ... 264 V AC
Outputs	Analog, Frequency, Pulse, Status
Interfaces	RS485 RTU (Modbus), HART®
Cable Gland	M20 | 1/2" NPT

3D STEP Models are available upon request of factory. Products may be subject to change without notice. Contact factory for the most up-to-date product information.

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

AW-LAKE
PROCESS FLOW MEASUREMENT

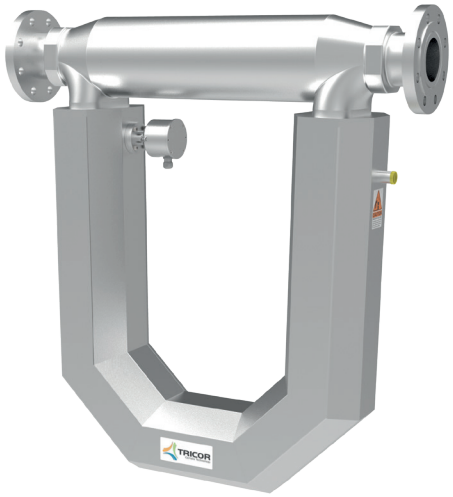
2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

TCM 230K TRICOR Coriolis Mass Flow Meter

Common Uses

The TCM 230K Coriolis flow meter with a U tube design offers the best overall performance of any tube shape, including the best signal-to-noise ratio and reduced effects from external vibration. This results in improved zero stability. These features plus the robust, no moving parts design make this meter well suited to many applications, including:

- Water measurement
- Loading & unloading large containment vessels
- Crude oil



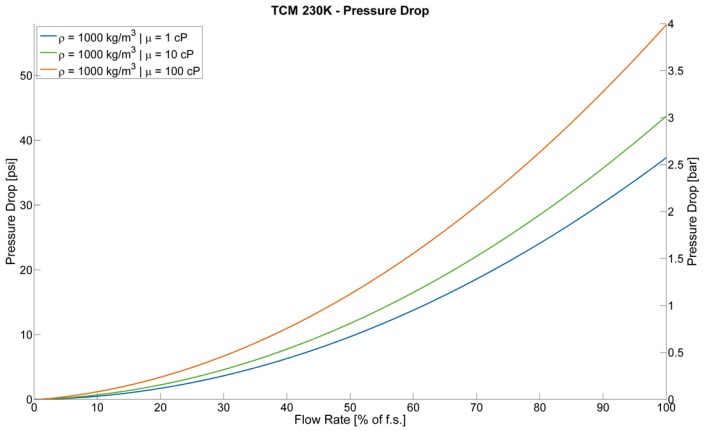
Technical Specifications

Nominal Meter Size	3" | DN80 mm
Maximum Flow Rate	230,000 kg/hr | 8,450 lbs/min | 230,000 l/hr | 1,013 gpm | 34,720 bbl/d (US)
Pressure Rating	1450 psi | 100 bar
Measuring Accuracy*	±0.15% of flow rate (Liquids) | ±0.5% of flow rate (Gases)
Repeatability	±0.05% of flow rate (Liquids) | ±0.25% of flow rate (Gases)
Zero Stability	±0.015% of full scale
Density Range	up to 2,500 kg/m^3 (2.5 g/cm^3)
Process Temperature Range	Standard: -40°F to 212°F (-40°C to 100°C) | Optional: -76°F to 392°F (-60°C to 200°C)
Temperature Accuracy	±1.8°F ±0.5% of reading | ±1.0°C ±0.5% of reading
Temperature Repeatability	±0.36°F | ±0.2°C
Calibration	Comes with a NIST-Traceable calibration certificate**
Standard Process Connection	3" to 4" 150lb to 900lb ANSI flanges (consult factory for additional flange options)

**Stated flow accuracy combines the effects of repeatability, linearity and hysteresis. The specifications refer to standard conditions (for further information see TCM CLASSIC series manual).*
***Contact factory for custom 10-point calibration.*

Materials of Construction (Wetted Parts)

Tubes	316L Stainless Steel (DIN 1.4404)
Case	316L Stainless Steel (DIN 1.4404)
Flow Splitter	CF3M (DIN 1.4409)



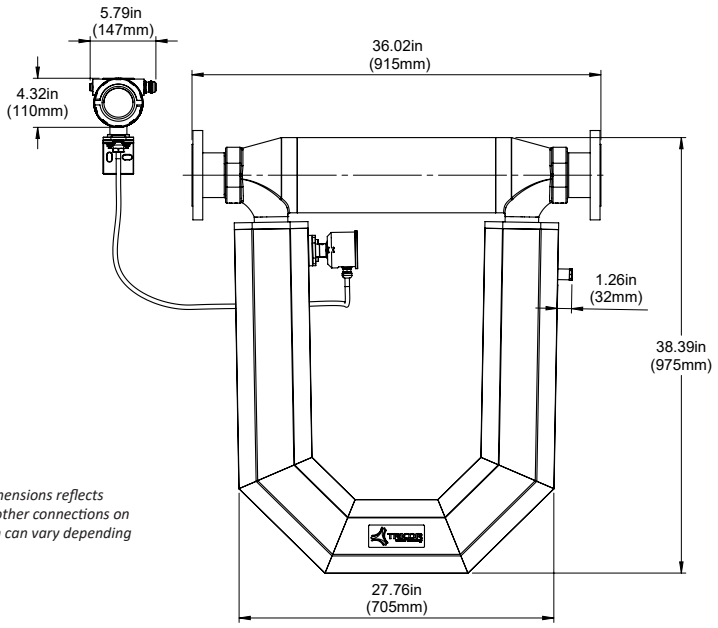
AW-LAKE
PROCESS FLOW MEASUREMENT

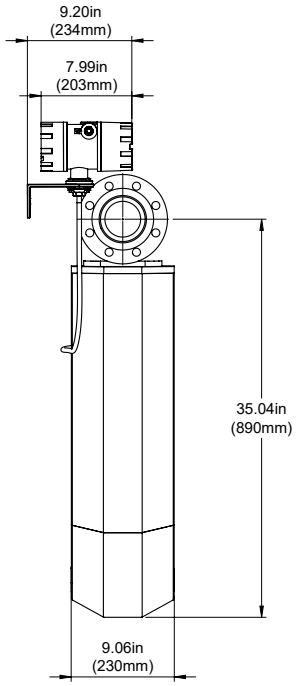
2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

TCM 230K TRICOR Coriolis Mass Flow Meter

Meter Dimensions* & Weights

Weight: 194.4 lb / 87 kg (includes junction box and remote field mount transmitter)





**Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).*

Certifications

CSA*	**Sensor**: Cl. I, Div. 1, Groups C & D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can) Cl. I, Zone 0, AEx ia IIC T4...T2 Ga (US) **Transmitter**: Cl. I, Div. 1, Groups C & D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can) Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)

**CSA certification is only available in diecast aluminum housing.*

ATEX	**Zone 1:** **Sensor:** II 1G Ex ia IIC T4...T2 Ga **Transmitter:** II 2(1)G Ex db [ia Ga] IIC T4 Gb **Zone 2:** II 3G Ex nA IIC T4 Gc
IECEx	**Sensor:** Ex ia IIC T4...T2 Ga **Transmitter:** Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2...T4
KGS (Korean)	**Sensor**: Ex ia IIC T4 **Transmitter**: Ex d (ia) IIC T4

Electronics

Power Supply	24 V DC ±20% or 90 ... 264 V AC
Outputs	Analog, Frequency, Pulse, Status
Interfaces	RS485 RTU (Modbus), HART®
Cable Gland	M20 | 1/2" NPT

3D STEP Models are available upon request of factory. Products may be subject to change without notice. Contact factory for the most up-to-date product information.

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

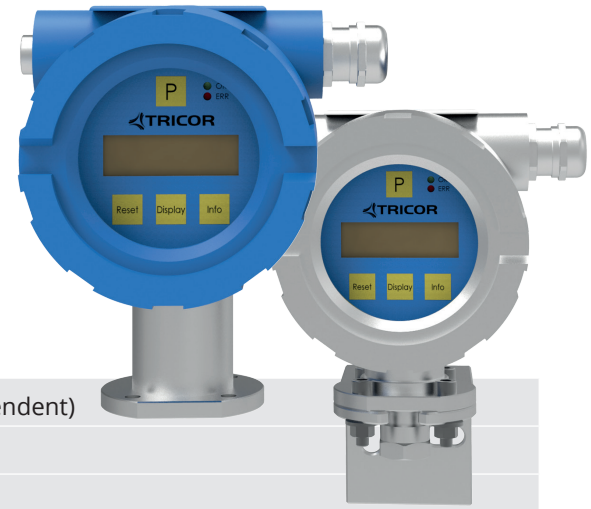
AW-LAKE
PROCESS FLOW MEASUREMENT

2440 W. Corporate Preserve Dr. #600, Oak Creek, WI 53154 | www.aw-lake.com

TCE 8000 TRICOR Coriolis Transmitter

Common Uses

The TCE 8000 is an economical multi-variable Coriolis transmitter that can output flow rate, total, density or temperature. It ships factory-configured for fast commissioning. TCE 8000 units are available in local mount or wall mount depending on your requirements and have hazardous area approvals: CSA (US & Canada), ATEX, IECEx, EAC (TR-CU), and KGS.



Technical Specifications

Supply Voltage	24 VDC or 100-240 VAC (version dependent)
Power Consumption	4 W (DC), max. 11W (AC)
Display	Back-lit LCD screen | 132 x 32 dot Programmed via front keyboard or TRICOR Configurator (Modbus)
Reverse Polarity Protection	yes
Galvanic Isolation	2,500 VAC
Interfaces	RS485 (Modbus RTU), HART®, Foundation Fieldbus®
Cable Glands	Suitable for 7-13 mm cables | Material: Brass/Ni plated (option: 316SS (1.4404 AISI)) Thread: 2 x 1/2" NPT or 2 x M20 x 1.5
Housing Material	Aluminum standard | 316L Stainless Steel (1.4404 AISI) optional
Protection Class	IP65 (IP66/IP67 on request)
Ambient Temperature	AC: -40 to 122°F (-40 to 50°C); DC: -40 to 158°F (-40 to 70°C)
Connectivity	Cage clamp terminals

Analog Output

Current Outputs (2x)	4-20 mA passive
Output Value (programmable)	flow, total mass, total volume, density, temperature

Pulse Output

Frequency Range	.5 - 10,000 Hz
Output Signal	Active push-pull outfut for flow rate

Status Input & Output

Status Output	Push pull programmable: in TOTAL mode: 0.5 - 100 Hz; in FREQUENCY mode: 0.5-10,000 Hz
Control Input	Programmable

Analog Input (Option)

Input Type	4-20 mA active for two-wire passive pressure sensor

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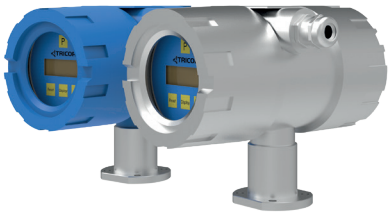
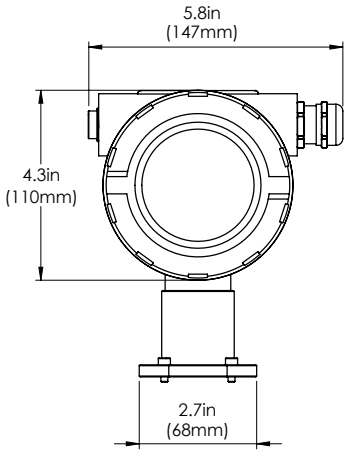
TCE 8000 TRICOR Coriolis Transmitter

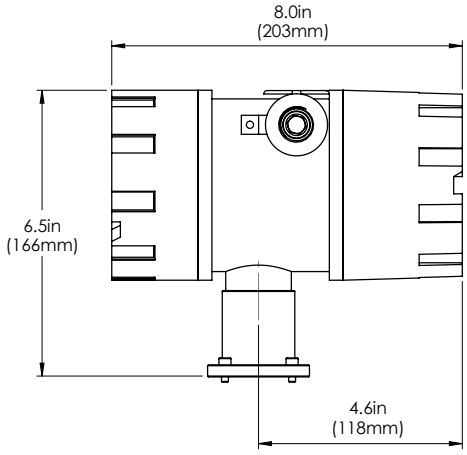
Unit Dimensions & Weights

Meter-Mount Model
Aluminum diecast housing:
Weight: 6.1 lb (2.8 kg)

Stainless steel housing:
Weight: 15.8 lb (7.2 kg)

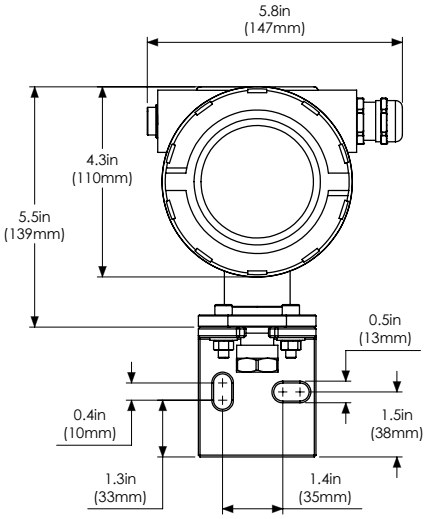


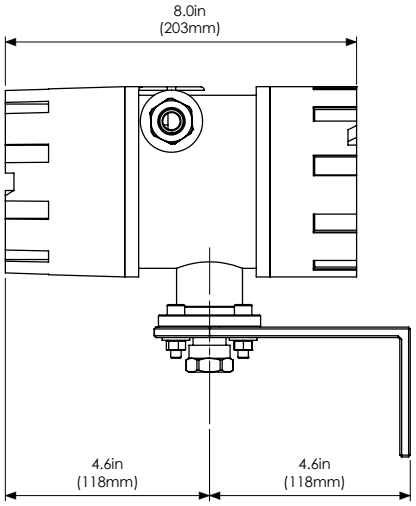




Wall-Mount Model
Aluminum diecast housing:
Weight: 8.4 lb (3.8 kg)

Stainless steel housing:
Weight: 19.4 lb (8.8 kg)





Certifications

CSA*	**Compact:** Cl. I, Div. 1: Groups C & D: T4 (US, Can) Ex db ia IIC T4 Gb (Can) Cl. I, Zone 1, AEx db ia IIC T4 Gb **Remote:** **Sensor**: Cl. I, Div. 1, Groups C & D: T4...T2 (US, Can) Ex ia IIC T4...T2 Ga (Can) Cl. I, Zone 0, AEx ia IIC T4...T2 Ga (US) **Transmitter**: Cl. I, Div. 1, Groups C & D: T4 (US, Can) Ex db [ia Ga] IIC T4 Gb (Can) Cl. I, Zone 1, AEx db[ia Ga] IIC T4 Gb (US)

ATEX	**Zone 1: Compact:** II 2G Ex db ia IIC T4 Gb **Remote: Sensor:** II 1G Ex ia IIC T4...T2 Ga **Transmitter:** II 2(1)G Ex db [ia Ga] IIC T4 Gb **Zone 2 (All):** II 3G Ex nA IIC T4 Gc
IECEx	**Compact:** Ex db ia IIC T4 Gb **Remote: Sensor:** Ex ia IIC T4...T2 Ga **Transmitter:** Ex db [ia Ga] IIC T4 Gb
EAC (TR-CU)	Group IIC or IIB, T2...T4
KGS (Korean)	**Compact:** Ex d (ai) IIC T4 **Remote: Sensor**: Ex ia IIC T4 **Transmitter**: Ex d (ia) IIC T4

**CSA certification is only available in diecast aluminum housing.*

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TCE 6000 TRICOR Coriolis Transmitter

Common Uses

The TCE 6000 is a Multi-variable Coriolis transmitter that can output flow rate, total, density or temperature. Units ship factory-configured and ready for ESTA applications. TCE 6000 transmitters communicate via RS485 (Modbus RTU) for easy connection with the TRICOR configurator.

Technical Specifications

Supply Voltage	24 VDC
Power Consumption	Max. 4 W
Interfaces	RS485 (Modbus RTU), USB (option)
Housing Material	Aluminum
Protection Class	IP65
Ambient Temperature	-40 to 158°F (-40 to 70°C)
Connectivity	M12 connectors

Analog Output

Current Outputs (2x)	4-20 mA active
Output Value (programmable)	flow, total mass, total volume, density, temperature

Pulse Output

Frequency Range	0.5 - 10,000 Hz For ESTA (OPTV receiver): 0.5 - 5,000 Hz
Output Signal	Active push-pull outfut for flow rate Optional: isolated optical pulse output

Status Input & Output

Status Output	Push pull programmable (option) in TOTAL mode: 0.5 - 100 Hz
Control Input (programmable)	Standard: 1 input / option: 2 inputs Optional: insulated optical control input

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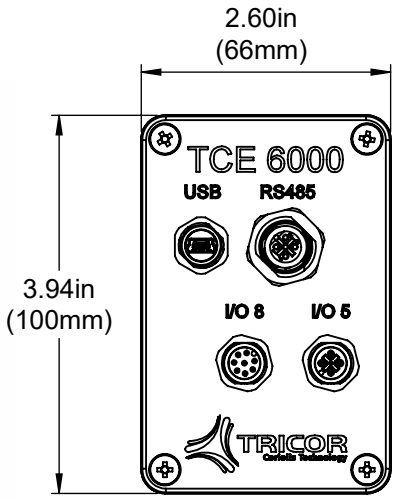
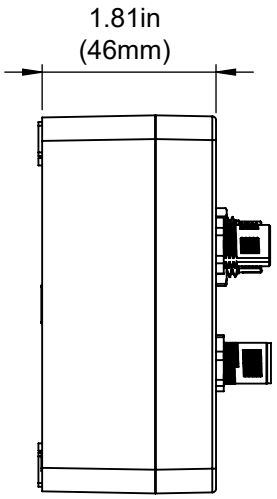
TCE 6000 TRICOR Coriolis Transmitter

Unit Dimensions & Weights

Meter-Mount Transmitter
Weight: 0.7 lb (0.3 kg)





Certifications

ATEX*	**Zone 2:** II 3G Ex nA IIC T2...T4 Gc
EMC	EN 61000-6-4 EN 61000-6-2

**Only if powered by an SELV supply.*

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

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