**CLASSIC Series | TCM 1550 Coriolis Mass Flow Meter**

**FEATURES**
- Robust, no moving parts for long life
- Custom flow connectors & installation lengths
- Excellent repeatability (±0.05 % of flow rate)
- High pressure option: 345 bar [5,000 psi]

**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 oil bbl/d (US)]
- Nominal Meter Size: DN6 [1/4"]

**PRESSURE RATING**
- 200 bar [2,900 psi]
- (option: up to 345 bar [5,000 psi])

**ACCURACY (LIQUIDS)**
- Basic Accuracy (Mass Flow): ±0.3 % (option: up to ±0.1 %) of flow rate
- Repeatability (Mass Flow): ±0.05 % of flow rate
- Basic Accuracy (Volume Flow): ±0.3 % (option: up to ±0.15 %) of flow rate
- Repeatability (Volume Flow): ±0.05 % of flow rate
- Zero Stability: ±0.01 % of full scale

**ACCURACY (GASES)**
- Basic Accuracy (Mass Flow): ±1 % (option: up to ±0.5 %) of flow rate
- Repeatability (Mass Flow): ±0.25 % of flow rate

**DENSITY**
- Density Range: up to 2,500 kg/m³ [2.5 g/cm³]
- Density Accuracy: ±1.0 kg/m³ [±0.001 g/cm³]
- Density Repeatability: ±0.5 kg/m³ [±0.0005 g/cm³]

**TEMPERATURE**
- Process Temperature Range: -40 °C ... +100 °C [-40 °F ... +212 °F]
- Option: -60 °C ... +200 °C [-76 °F ... +392 °F]
- Temperature Accuracy: ±1 °C ±0.5 % of reading
- Temperature Repeatability: ±0.2 °C [±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

**BENEFITS**
- Increased productivity, lower maintenance
- Lower installation cost
- Increased product quality
- Broad applications: dosing, paint, chemical injection

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1) The 200 bar standard pressure rating is per ASME. The 345 bar option is non-ASME rated.
2) Stated flow accuracy combines the effects of repeatability, linearity and hysteresis.
3) The specifications refer to standard conditions (for further information see TCM CLASSIC series manual).
METER DIMENSIONS\(^4\) AND WEIGHTS

A) Compact Version
Weight: 11.6 kg [25.6 lb]
With meter mount in aluminum diecast housing

B) Remote Version
Weight: 12.9 kg [28.4 lb]
With junction box and remote field mount

Standard Process Connection
G\(\frac{3}{4}\)" thread (others on request)

APPROVALS & CERTIFICATIONS

ATEX Zone 1

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IECEEx

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Atex Zone 2

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IECEx

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EAC (TR-CU)

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KGS (Korean)

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ELECTRONICS

Power Supply: 24 V DC or 100 ... 240 V AC (version dependent)
Outputs: Analog, Frequency, Pulse, Status
Interfaces: RS485 RTU (Modbus), HART®
Cable Gland: M20 | \(\frac{3}{4}\)" NPT

\(^4\) Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).
\(^6\) For cCSAus the electronic is only available in aluminum housing.
\(^6\) Only wall mounting, not panel mounting.
\(^6\) Weight: 0.4 kg (0.88 lb).
\(^6\) Weight with aluminum diecast housing: 3.8 kg [8.4 lb] with 3 m cable.