

TCM 0100 Coriolis Mass Flow Meter

Benefits:

- > Ultra low flow rate down to 5cc/min (300 grams/hr, .001 gallons/min)
- > Rated at 5,000 psi
- > No filter requirement
- > Fast response time
- > Simple to clean / flushable
- > Multiple connections available (NPT, AutoClave, tubing)
- > No moving parts – less wear, easier maintenance

Pressure Rating: 350 bar, 5000 psi

Specifications:

Mass Flow Rate (max.) 50 kg/hr, 1.84 lbs/min
Volumetric Flow Rate (max.) 50 l/hr, 0.22 gpm
Tube Inner Diameter .06 in (1.52 mm)
Weight (w/o flanges) 2 lbs, 0.9 kg

Accuracy: ¹⁾

Basic Accuracy (Mass Flow): $\pm 0.2\%$ of flow rate
Basic Accuracy (Volume Flow): $\pm 0.25\%$ of flow rate
Repeatability: $\pm 0.1\%$ of flow rate
Zero Stability $\pm 0.02\%$ of full scale

Density:

Density Range: Up to 4,500 kg/m³, 4.5 g/cm³
Density Accuracy: Liquids: ± 1.0 kg/m³, ± 0.001 g/cm³
Density Repeatability: ± 0.5 kg/m³, ± 0.0005 g/cm³

Temperature:

Temperature Range (Fluid): -40°C to 80°C, -40°F to 180°F
Temperature Accuracy: ± 1.0 °C $\pm 0.5\%$ of reading
Temperature Repeatability: ± 0.2 C, ± 0.36 °F

Process Pressure Effect: ²⁾

Mass Flow Accuracy: $\pm 0.001\%$ of rate per psi ³⁾
Density Accuracy: 9 ± 0.00003 g/cm³ per psi ³⁾

Materials of Construction:

Wetted Parts: 316L Stainless Steel
All-Welded Design

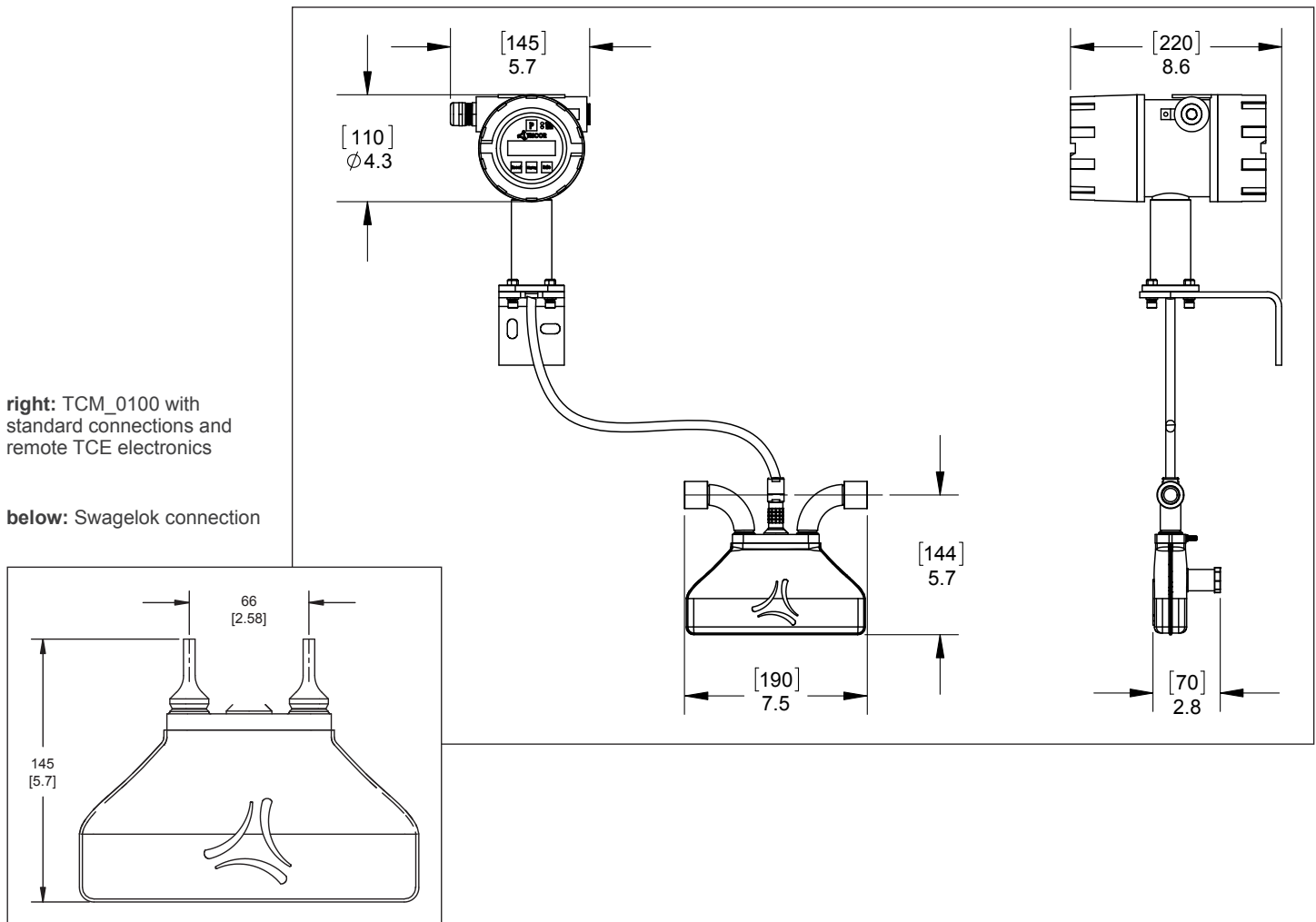


¹⁾ Stated flow accuracy combines the effects of repeatability, linearity and hysteresis

²⁾ TCE-8000 electronics offers pressure input to eliminate process pressure effect

³⁾ 1 psi = 0.06894 bar

Meter Dimensions: ²⁾



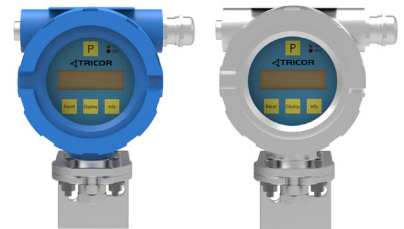
Electronics:

Power Supply: 24 V DC \pm 20 % or 90 ... 264 V AC
 Outputs: Analog, Frequency, Pulse, Status
 Interface: RS485 RTU (Modbus), HART®
 More options on request

Panel Mount ³⁾



Field Mount ⁴⁾



The TCE-8000 transmitter offered with the TRICOR Coriolis Mass Flow Meter is also available with other mounting options.

²⁾ Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).

³⁾ Weight: 0.88 lb/0.4 kg

⁴⁾ Weight with Aluminium diecast housing: 8.3 lb/3.8 kg with 3 m cable, Weight with 1.4404/AISI 316L housing: 13.56 lb/6.15 kg



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