



# PRO Plus Series | TCMQ 018K Coriolis Mass Flow Meter

## FEATURES

- Fast dosage, short response time (max. 10 ms )
- 100 Hz refresh rate for all outputs
- Extremely short installation length
- High zero stability drift-free
- Empty pipe detection

## BENEFITS

- ▶ High dosing accuracy
- ▶ Suitable for pump monitoring, fast control circuits
- ▶ Best fit in most system configurations
- ▶ Accuracy combined with long-term stability
- ▶ Extensive diagnostics and self-monitoring

## FLOW RATE

Mass Flow Rate (max.):	17,700 kg/h [650 lb/min]
Volumetric Flow Rate (max.):	17,700 l/h [78.0 gpm, 2,670 oil bbl/d (US)]
Nominal Meter Size:	DN25 [1"]

**PRESSURE RATING** 100 bar [1,450 psi]

## ACCURACY (LIQUIDS)<sup>1)</sup>

Basic Accuracy (Mass Flow):	±0.1 % of flow rate
Repeatability (Mass Flow):	±0.05 % of flow rate
Basic Accuracy (Volume Flow):	±0.5 % (option: up to ±0.1 %) of flow rate
Repeatability (Volume Flow):	±0.05 % of flow rate
Zero Stability:	±0.01 % of full scale

## ACCURACY (GASES)

Basic Accuracy (Mass Flow):	±0.35 % of flow rate
Repeatability (Mass Flow):	±0.05 % of flow rate

## DENSITY

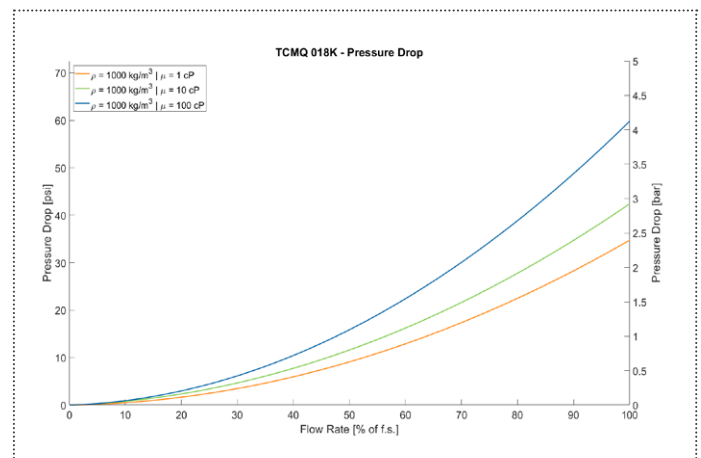
Density Range:	up to 5,000 kg/m <sup>3</sup> [5.0 g/cm <sup>3</sup> ]
Density Accuracy:	±5.0 kg/m <sup>3</sup> (option: ±0.5 kg/m <sup>3</sup> ) [±0.005 g/cm <sup>3</sup> (option: ±0.0005 g/cm <sup>3</sup> )]
Density Repeatability:	±0.25 kg/m <sup>3</sup> [±0.00025 g/cm <sup>3</sup> ]
Brix:	0.1 °Brix (1,000/m <sup>3</sup> )

## TEMPERATURE

Process Temperature Range:	-60 °C ... +200 °C [-76 °F ... +392 °F]
Temperature Accuracy:	±0.5 °C ±0.25 % of reading [±0.9 °F ±0.25 % of reading]

## MATERIALS (WETTED PARTS)

Case:	1.4301 [AISI 304]
Tubes:	1.4435 [AISI 316L] <sup>2)</sup>
Flow Splitter:	1.4404 [AISI 316L]



<sup>1)</sup> Stated flow accuracy combines the effects of repeatability, linearity and hysteresis.

<sup>2)</sup> Special material Hastelloy C22 (W2.4602) only on request.

