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.):

6,400 kg/h [235 lb/min]

Volumetric Flow Rate (max.):

6,400 l/h

[28 gpm, 970 oil bbl/d (US)]

Nominal Meter Size:

DN15 [½"]

PRESSURE RATING

100 bar [1,450 psi]

ACCURACY (LIQUIDS)1)

Basic Accuracy (Mass Flow): Repeatability (Mass Flow):

±0.1% of flow rate ±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:

±0.003 % of full scale

ACCURACY (GASES)

Basic Accuracy (Mass Flow): Repeatability (Mass Flow):

±0.35 % of flow rate

±0.05 % of flow rate

DENSITY

Density Range: Density Accuracy: up to 5,000 kg/m³ [5.0 g/cm³]

±5.0 kg/m³ (option: ±0.5 kg/m³)

 $[\pm 0.005 \text{ g/cm}^3 \text{ (option: } \pm 0.0005 \text{ g/cm}^3)]$

Density Repeatability:

±0.25 kg/m³ [±0.00025 g/cm³]

Brix:

0.1 °Brix (1,000/m³)

TEMPERATURE

Process Temperature Range:

-60 °C ... +200 °C [-76 °F ... +392 °F]

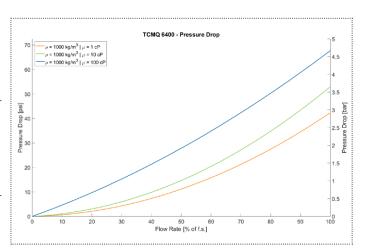
Temperature Accuracy:

±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]²⁾ Flow Splitter: 1.4404 [AISI 316L]





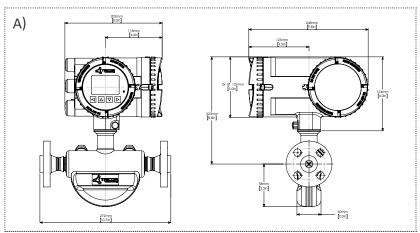


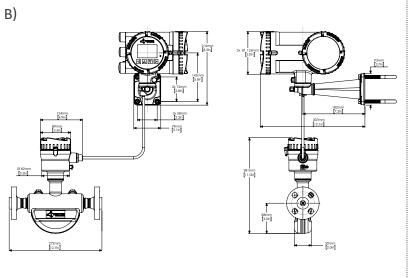
²⁾ Special material Hastelloy C22 (W2.4602) only on request.



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PRO Plus Series | TCMQ 6400 Coriolis Mass Flow Meter





METER DIMENSIONS3) AND WEIGHTS

A) Compact Version

Weight: 9.5 kg [20.9 lb]

With meter mount in aluminum diecast housing

B) Remote Version

Weight: 12.0 kg [26.5 lb]

With junction box and remote field mount

Standard Process Connection (others on request)

DN15 – EN 1092-1 B1, PN40 [ASME ½" B16.5 Class 150 / 300]

EX-CERTIFICATIONS^{4) 5)}

ATEX	II 1/2 (1) G Ex db eb ia [ia Ga] IIC T* Ga/Gb II 2 (1) D Ex tb [ia Da] IIIC T* Db
IECEx	Ex db eb ia [ia Ga] IIC T* Ga/Gb Ex tb [ia Da] IIIC T* °C Db
cCSAus	US marking: Class I , II, III, Division 1, Group A-G Class I, Zone 1, AEx db eb ia [ia Ga] IIC T3-T6 Gb Zone 21, AEx tb [ia Da] IIC T85 °C Canadian marking: Ex db eb ia [ia Ga] IIC T3-T6 Gb Ex tb [ia Da] IIC T85 °C

BASIC TRANSMITTER⁶⁾



COMPACT MOUNT



REMOTE MOUNT



DISPLAY ELECTRONICS

Power Supply: 20 ... 27 V DC

100 ... 240 V AC

Graphical Display: 240 x 160 pixels

Configurable I/O: Analog, Digital, Frequency, Relay

Interfaces: PROFIBUS PA, PROFIBUS DP,

HART 7.5, Modbus RS485 RTU

Enclosure Material: Aluminum

Cable Gland: ½" NPT, M20x1.5

³⁾ Drawing of the Meter Dimensions reflects one standard connection, other connections on request (Installation length can vary depending on selected connection).
 ⁴⁾ Specifications apply to TCMQ with TCD 9100/9200 transmitter;

⁴⁾ Specifications apply to TCMQ with TCD 9100/9200 transmitter; Specifications for TCMQ with TCD 9010 transmitter: please see TCMQ PRO Plus series datasheet.

5) T* refer to Ex-certificate.

6) Specification basic transmitter: see special TCD 9010 spec sheet.



www.tricorflow.com

NORTH & SOUTH AMERICA

Liebigstraße 5 85757 Karlsfeld | Germany +49 8131 59391-0

CHINA