TCM 028K Series Coriolis Mass Flow Meter

Advantages:

- > Robust for long life
- > Customized installation length
- > Excellent repeatability
- > Optional net oil functionality

Benefits:

- > Increased productivity
- > Considerable cost savings for installation
- > Increased product quality
- > Increased well efficiency

Pressure Rating:

100 bar, 1450 psi

28000 kg/h, 1029 lb/min

Specifications:

Mass Flow Rate (max.): Volumetric Flow Rate (max.): Nominal Meter Size:

Accuracy [liquids]:1)

Basic Accuracy [Mass Flow]: Mass Flow Repeatability: Basic Accuracy [Volume Flow]: ±0.15 % of flow rate Volume Flow Repeatability: Zero Stability:

Accuracy [gases]:

Basic Accuracy [Mass Flow]: Mass Flow Repeatability:

Density:

Density Range: Density Accuracy: Density Repeatability:

Temperature:

Process Temperature Range:	Standard: -40 °C +100 °C, -40 °F +212 °F
	Optional:
	-60 °C +200 °C, -76 °F +392 °F
Temperature Accuracy:	±1 °C ±0.5 % of reading
	±1.8 °F ±0.5 % of reading
Temperature Repeatability:	±0.2 °C, ±0.36 °F

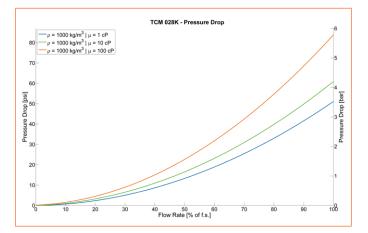
Materials of Construction [wetted parts]:

1.4404/AISI 316L
1.4301/AISI 304 (1.4404/AISI 316L)
CF3M/AISI 316L
BNi-2









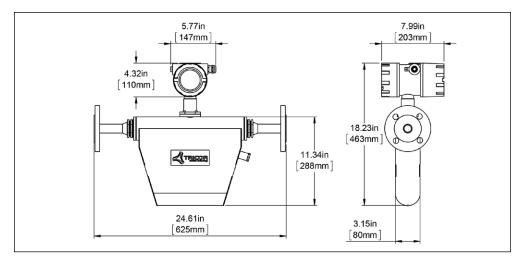
±0.1 % of flow rate ±0.05 % of flow rate ±0.05 % of flow rate ±0.01 % of full scale

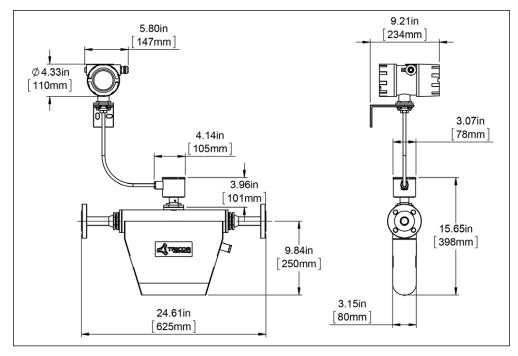
±0.5 % of flow rate ±0.25 % of flow rate

DN25, 1"

up to 2500 kg/m³, 2.5 g/cm³ Liquids ±1.0 kg/m³, ±0.001 g/cm³ ±0.5 kg/m³, ±0.0005 g/cm³

Meter Dimensions:2)





Compact Version

weight: 13.1 kg/30.2 lb with meter mount ex-electronics with Aluminium diecast housing meter connection: DN25 PN40/1" ANSI CL 300

Electronics:

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

Ex Certifications:

ATEX (Ex)	Zone 1: Group IIC or IIB, T2T4
ATEX (Exn)	Zone 2: II 3G Ex nA IIC T2T4 Gc
IECEx (Ex)	Zone 1: Group IIC or IIB, T2T4
cCSAus (Ex1) ⁵⁾	Class 1, Division 1: Group A, B, C, D or C, D, T2T4
ATEX + IECEx + cCSAus triple approval (Ex3) ^{5) 6)}	Zone 1: Group IIC or IIB, T2T4 and Class 1, Division 1: Group A, B, C, D or C, D, T2T4
EAC (TR-CU)	Group IIC or IIB, T2 T4

Panel Mount³⁾



Power Supply:2Outputs:AInterface:FMore options on request

Remote Field Mount⁴⁾

with junction box & remote field mount

depending on selected connection

Remote Version weight: 14.4 kg/33 lb

meter connection:



24 V DC ±20 % or 90 ... 264 V AC Analog, Frequency, Pulse, Status RS485 RTU (Modbus), HART®

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

- Weight: 0.4 kg/0.88 lb
 Weight with Aluminium diecast housing: 3.8 kg/8.3 lb with 3 m cable, Weight with 1.4404/AISI 316L housing: 6.15 kg/13.56 lb
- ⁵⁾ For cCSAus and triple Ex-approval the Ex-approvals for remote electronics in 1.4404/316L is pending.

6) Only with remote electronics



N & S AMERICA: AW-Lak 2440 W SINGAPORE: TASI FI 1003 Bi CHINA: TASI FIC Rm. 242 Rest of the World: KEM KÜ

AW-Lake Company 2440 W. Corporate Preserve Dr. #600, Oak Creek WI 53154, USA, Tel.: +1 414 574 4300 TASI Flow Souteast Asia, Representative Office (RO) Singapore 1003 Bukit Merah Central #06-32, Singapore 159836, UEN: T15RF0080G, P: +65 6274 1130 TASI Flow China Rm. 2429, JinYuan Office Building, No. 36, CN- BeiYuan Road, Beijing 100012, P.R. CHINA, Tel.:+86 10 520 037 38 KEM Küppers Elektromechanik GmbH, Liebigstraße 5, 85757 Karlsfeld, Germany, Tel.:+49 8131 59391-0