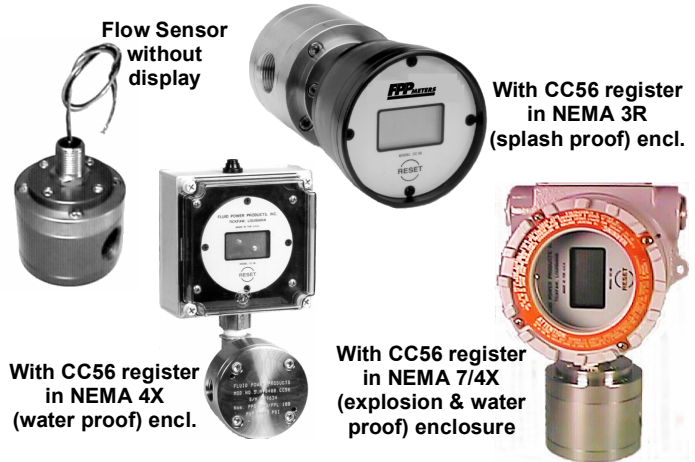


TUTHILL



Photos are representative of TM Series, not specific to TM02D model.

TM04A Anodized Aluminum

TM04D 316 Stainless Steel

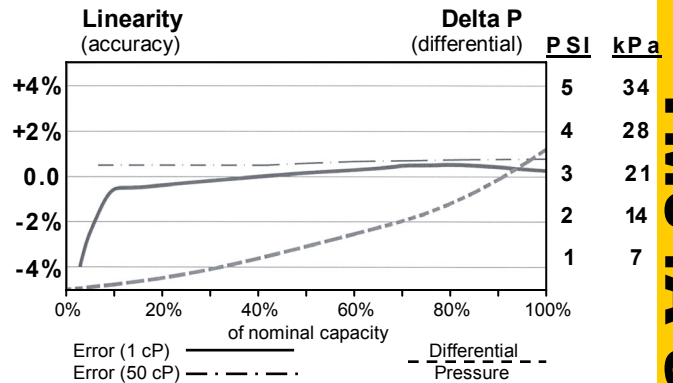
- Only two moving parts
- No metal to metal contact in chamber or bearings
- Electronic = Gland-less meter
- Patented 'Wave Form' oval gear design
- Low differential pressure for maximum flow

= **Low Cost of Ownership!**

Specifications

- **Nominal Capacity on 1 cSt viscosity with 10:1 turndown:**
 - 10 GPM = 38 lpm
 - 600 GPH = 2250 lph
- **Pressure Rating at 100°F (38°C), with 3:1 Safety Factor:**
 - TM04A : 400 PSI = 28 BAR
 - TM04D : 400 PSI = 28 BAR
 - Opt. : 1500 PSI = 103 BAR (code K)
 - TM04C : 2500 PSI = 173 BAR (code L)
- **Temperature Rating:**
 - Design : -40°F/+300°F = -40°C to +150°C
 - Temperature ratings under UL & ATEX listings may differ.
 - See register specifications for temperature range rating for electronics.
- **Connections:**
 - 1/2" ports in meter case, FNPT standard, FBSP optional.
 - 1/2" NPT x 1/2" 150# RF ANSI (floating flange) adaptors optional.
- **Materials:**
 - TM04A Case : Hardcoat anodized aluminum
 - Seal : Viton™ standard, Teflon™ optional (code B)
 - TM04D Case : 316 Stainless Steel
 - Seal : Teflon™ standard.
 - TM04C Case : 303 Stainless Steel
 - Seal : Teflon™ standard.
 - Posts : 316SS Hard Chrome coated
 - Gears Std. : PPS (polyphenylene sulfide resin)
- **Pulsers:**
 - H = Hall Effect is standard
 - Pos. 14 Q = Opt. Quadrature Hall Effect (via SCL)
 - in P/No. B = Opt. Reed Switch, for use with FPP battery powered registers only.
- **Nominal Pulse Resolution:**

	On 1 cSt viscosity	On 100 cSt viscosity
Standard H & Q:	±402 PPG (106 ppl)	±388 PPG (103 ppl)
Optional H & Q:	±805 PPG (53 ppl)	±775 PPG (51 ppl)
B only:	±201 PPG (27 ppl)	±194 PPG (26 ppl)



Meter Performance

- **Linearity** Over 10:1 turn-down from nominal capacity: ±0.5% with electronic enhancements: ±0.25%
- **Repeatability** ±0.25% under constant conditions

Approvals

- **Flow Meter** CE mark
- **Pulsers** UL, cUL & ATEX listed; Intrinsically Safe when powered through a UL or ATEX listed barrier with appropriate rating.

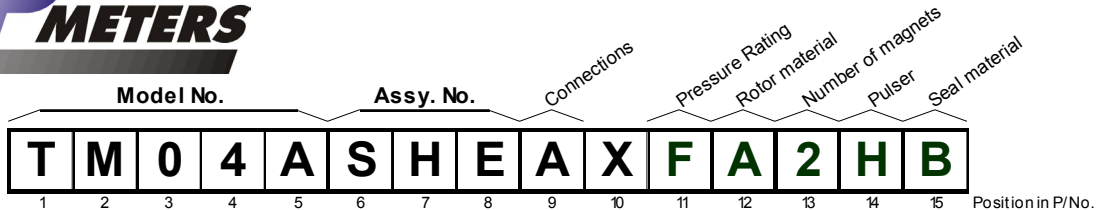
Optional Registration, Signals & Accessories

- **Signal Conditioners:**
 - PIA Pulse Isolator, Amplifier & Splitter, with sinking & sourcing output signal.
 - PAC Pulse to Analog (4-20 mA) signal converter, requires min. 9 Hz input frequency.
 - SCL Scaler, Calibrator and/or Linearizer, please consult for selection & pricing.
- **Registers, Totalizers & Batch Controllers**
 - CC56 Battery powered register, NEMA 3R, 4X or 7/4X
 - ELNC AC, DC or battery powered, NEMA 4X
 - PRT AC or DC, high/low flow alarm, opt. 4-20 mA signal
 - PC58 DC or battery, Total & Rate, opt. 4-20 mA signal
 - PCDT58 DC or battery, opt. 4-20 mA signal
 - PDB180 AC or DC batch controller, opt. 4-20 mA signal
 - EMR² DC, register/preset, serial port for PC interface, Optional with temperature compensation
 - 6116 Differential totalizer, pulse & 4-20 mA signal
 - 6127 Temperature compensated version of 6116
- **Accessories**
 - Inlet strainer for flow meter protection is recommended
 - Solenoid control valves, pneumatic operator
 - Solenoid control valves, electric operator

TM04A & TM04D



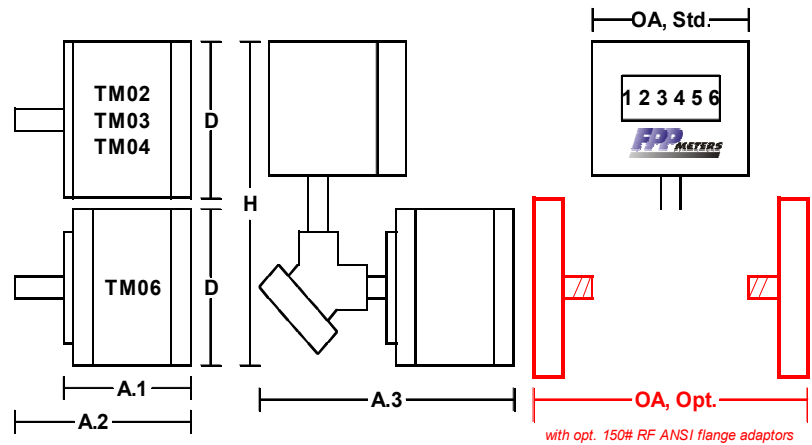
ISO 9001:2000 Certified



Pos. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Position in P/No.

- 5:** A = Hardcoat Anodized Aluminum
 C = 303 Stainless steel case (2500 PSI version only)
 D = 316 Stainless steel case
- 6-8:** SHE = Flow sensor with Hall Effect pulser
 SQE = Flow sensor with Hall Effect pulser + SCL for quadrature signal
 SRS = Flow sensor with Reed Switch pulser
- 9:** A = Bolted companion flanges, with NPT port.
 B = Bolted companion flanges, with BSP port.
 C = 1/2" NPT x 1/2" 150# RF ANSI adaptor (floating flange type)

All dimensions are in inches. 1" = 25.4 mm



Flow Sensor		Flow Meter with signal conditioner/register in enclosure									with ANSI adaptors				
		NEMA 3R			NEMA 4X			NEMA 7/4X							
		D	A.1	A.2	A.3	H	OA	A.3	H	OA	A.3	H	OA	OA, opt.	
TM04	400 PSI	3.23"	2.05"	3.66"	5.01"	3.61"	3.61"	4.88"	8.81"	5.06"		8.22"	5.89"	6.73"	
	1500 PSI	3.23"	2.17"	3.78"	5.13"	3.61"	3.61"	5.00"	8.81"	5.06"		8.22"	5.89"	na	
	2500 PSI	3.98"	2.31"	3.73"	5.60"	3.98"	3.98"	4.95"	9.19"	5.06"		8.59"	5.89"	na	
					A.4 =			3.02"			A.4 =			4.54"	



TUTHILL
 Transfer Systems

Tuthill Transfer Systems,
 P.O. Box 400,
 Tickfaw, LA 70466, USA

Phone: 985-542-5200
 888-578-3258
 Fax: 985-542-7394
 E-mail: FPPWebInquiries@tuthill.com

International offices:

	Phone	Fax
Europe, Africa & Middle East	+44 (1858) 467-888	+44 (1858) 433-732
Mexico	+52 (81) 8355-5535	+52 (81) 8355-5534
Carib/CA/northern South America	+57 (1) 633-6494	+57 (1) 757-2616
Argentina, Chile & Brazil	+54 (11) 4866-5641	+54 (11) 4866-5641
Australia/Pacific Rim	+61 (3) 9720-6533	+61 (3) 9720-6880
China	+86 (21) 5385-3369	+86 (21) 5385-3365

Distributed by: