



TM04A/TM04D, 1/2"

Anodized Aluminum / 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

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 : 1500 PSI = 103 BAR
 TM04D : 1500 PSI = 103 BAR
- **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.
- **Materials:**
 TM04A Case : Hardcoat anodized aluminum
 Seal : Viton™ standard, Teflon™ optional
 TM04D Case : 316 Stainless Steel
 Seal : Teflon™ standard.
 Posts : 316SS Hard Chrome coated
 Gears Std. : PPS (polyphenylene sulfide resin)
- **Pulsers:** Hall Effect or Reed Switch (for battery powered registers)
- **Nominal Pulse Resolution:**

	On 1 cSt viscosity	On 100 cSt viscosity
Hall Effect:	±805 PPG (212 ppl)	±777 PPG (205 ppl)
Reed Switch:	±201 PPG (53 ppl)	±194 PPG (51 ppl)



Flow Sensor without display



With CC56 register in NEMA 4X (= water & dust proof) enclosure



With CC56 register in NEMA 7/4X (= explosion & water proof) enclosure

Meter Performance

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

* This flow meter will operate with up to 30:1 turn-down. However, extended operating range, will result in greater flow meter error at the low end.

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

- **Registers, Totalizers & Batch Controllers**
 CC56 Battery powered register, NEMA 4X or NEMA 7/4X
 ELNC AC or DC, NEMA 4X
 PC58 DC, Totalizer/Rate Meter
 PDB180 AC or DC batch controller, opt. 4-20 mA signal
 EMR³ DC, register/preset, serial port for PC interface, optional with temperature compensation
- **Signal Conditioners:**
 EL6630 PIA-300, Pulse Isolator, Amplifier & Splitter, with sinking & sourcing output signal.
 EL0410-7 SCL, Scaler, Calibrator and/or Linearizer for EMR³ please consult for selection & pricing.

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ISO 9001:2000 Certified

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