

TM02D

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

Specifications

- **Nominal Capacity on 1 cSt viscosity with 10:1 turndown:**
0.3 GPM = 1.1 lpm
18 GPH = 68 lph
- **Pressure Rating at 100°F (38°C), with 3:1 Safety Factor:**
TM02D : 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:**
1/4" ports in meter case, FNPT standard, FBSP optional.
- **Materials:**

TM02D	Case	:	316 Stainless Steel
	Seal	:	PTFE standard.
	Posts	:	316SS Hard Chrome coated
	Gears Std.	:	Stainless Steel
- **Pulsers:** Hall Effect or Reed Switch (for battery powered registers)
- **Nominal Pulse Resolution:**

	<u>On 1 cSt viscosity</u>	<u>On 100 cSt viscosity</u>
Hall effect:	±7700 PPG (2034 ppl)	±7300 PPG (1930 ppl)
Reed Switch:	±3850 PPG (1017 ppl)	±3650 PPG (965 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: ±2%
with electronic enhancements: ±0.5%

* 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 0.5% 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 and 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
6116	Differential totalizer, pulse & 4-20 mA signal
6127	Temperature compensated version of 6116
- **Signal Conditioners:**

EL6630	PIA-300 , Pulse Isolator, Amplifier & Splitter, with sinking & sourcing output signal.
EL0410-7	SCL , Scaler, Calibrator and/or Linearizer for EMR ³ please consult for selection & pricing.

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ISO 9001:2000 Certified

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