



TS15CW04ABTU

For use with electronic register. Depending upon register model, the pulser compartment in flow sensor front cover holds the sensor (pulser), and either:

- A. **TBB** = Terminal Block Board
- B. **SCL** = Scaler/Calibrator/Linearizer

TS15C, 1 1/2"

Stainless Steel, Electronic


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

Specifications

- **Nominal Capacity with standard LV rotors**

To 1500 SSU visc. :	60 GPM	}	<i>NTEP 5:1 turn-down Industrial to 30:1 turn-down</i>
To 300 cP viscosity :	230 lpm		
To 300 cP viscosity :	14 m³/h		
- **Pressure Rating** :
Meter & Strainer : 400 PSI at 100°F = 28 BAR at 40°C
- **Temperature Rating** *See note under Signal Conditioners*
Design W Assy. : -40°F to +257°F = -40°C to +125°C
ATEX listing : -4°F to +140°F = -20°C to +60°C
Design F Assy. : Same, *subject to register temperature limits!*
- **Viscosity**
 With **LV** rotors : 100% capacity to 1,500 SSU (300 cP).
 With **HV** rotors : 100% capacity to 5,000 SSU (1000 cP),
 reduced capacity to 1,500,000 SSU (350,000 cP).
- **1 1/2" Connections** Bolted companion flanges with NPT or BSP port.
 Optional : Bolted welding flanges, stainless steel
 Bolted 150# RF ANSI adaptors, stainless steel
- **Materials** **100% Non-Ferrous**
 Case : CF8M (cast equivalent to 316SS).
 Gears : PPS with carbon bearings, Teflon™ bearings opt.
 Posts : HC316SS
 Seals : Teflon™ standard.
 Flanges : CF8M (cast equivalent to 316SS).
- **Pulser** : **Hall Effect Quadrature**,
 5V reg or 6-12V non-reg; pls consult for 24V DC.
- **K Factor** : Nominal 1013 PPG (267.6 ppl) on 1 cP viscosity,
 Opt. with SCL : EL0300-3-13C = 100 PPG (26.5 ppl)
 EL0300-3-18C = 10 PPL (37.85 PPG)

Meter Performance

- Linearity** Over 5:1 turn-down from max. capacity: ±0.175%
 Over 10:1 turn-down from max. capacity: ±0.25%
 Over 30:1 turn-down from max. capacity: ±0.5%
- Repeatability** 0.05% or better under constant conditions
- Approvals** Custody Transfer approvals are liquid specific.
 W&M approval in the US & Canada*.
 * Canada: W&M approval of pulser is pending.
- **Flow Meter** CE mark.
- **Pulser & SCL** **Intrinsically Safe**, UL & cUL listed,
SCL also EEx ia ATEX
when powered through approved barrier.
- **Pulser encl.**  II 2G Ex d IIA T4, -20°C <Ta<+60°C,
 ATEX, IEC Ex & IP65

Registration, Signals & Accessories

- **Electronic registers:**
 Tuthill electronic flow meters will support most common electronic registers & controllers. Available through Tuthill:
 - **ELNC** W&M register for stationary service
 - **EMR³** W&M register for stationary or truck service
 - **PC58** Totalizer/Rate meter (non-W&M)
 - **Signal Conditioners:**
 - **EL0300** SCL Scaler, Calibrator and/or Linearizer.
 - **EL6630** PIA-300 amplifier for remote register (to 2,500' = 750 m)
 - **PC58** with optional 4-20 mA signal or multi-point calibration.
- NOTE:** *If EL0300 is used in place of EL0304, max liquid temperature = 185°F (85°C). For higher liquid temperatures, these components must be mounted remote from the flow meter in a separate enclosure.*

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