

# Lubretec

## Lubricant consumption meter



LU-TRB102100

LU-TRB102300



LU-TRB102112

*The LU-TRB102100 is for lubricants ; the LU-TRB102300 = Typical liquids measured are water-based fluids (windshield washer, antifreeze, coolant).*

### 1. Product Description

The high-precision, electronic oval-gear flow meter designed for measuring a variety of fluids. Built with modern, rugged design principles, it offers reliable performance for indoor dispensing and industrial fluid handling.

### 2. Key Features

- High Accuracy:**  $\pm 0.2\%$  (as specified in the user manual)
- Temperature Range:**  $-10\text{ }^{\circ}\text{C}$  to  $+60\text{ }^{\circ}\text{C}$
- Viscosity Range:**  $8\text{--}5000\text{ mPa}\cdot\text{s}$
- Working Pressure:** Up to 80 bar (8 MPa) (on some versions)
- Fluid Connections:**  $\frac{1}{2}''\text{ BSP}$  (female) (also available in NPT)
- Measuring Outputs:** Electronic display with resettable and non-resettable totalizers
- Power Supply:** Battery-operated (CR123A) or external power (depending on configuration)

- **Protection Rating:** IP65 (dust and water resistant)
- **Display Units:** Litres, Gallons, Quarts, Pints
- **Calibration:** Individually calibrated for traceable measurement
- **Warranty:** 1 year from date of purchase, subject to terms.

### 3. Dimensions & Weight

Parameter	Value
Dimensions (Approx.)	332 × 103 × 138 mm
Weight	≈ 2.0 kg (for the meter without accessories)

### 4. Environmental & Operating Conditions

- **Ambient Conditions:** Indoor use only (as per warranty terms).
- **Warranty Voided If:**
  - Used outdoors.
  - Incorrect fluid used (not intended fluid).
  - Unauthorised modifications, use of non-genuine replacement parts, or improper installation.

### 5. Installation & Maintenance

- Ensure installation by **qualified personnel** only.
- Use proper fittings and avoid over-tightening to prevent damage.
- Periodically inspect for wear, especially the o-ring and internal gear mechanism.

### 6. Electrical & Signal Output

- **Display Type:** Electronic two-line display.
- **Totalisers:**
  - Resettable: 5 digits (max 999.99 L)
  - Non-resettable: 6 digits (max 999,999 L)
- **Trigger Lock:** “Push to lock” trigger design ensures flow control during dispensing.

## 7. Materials & Construction

- **Body:** Robust engineering-grade materials capable of withstanding internal pressure and fluid compatibility.
- **Seals:** High-quality elastomer seals (type not explicitly stated, but typical for oval-gear meters: Viton, EPDM, etc.)
- **Gears:** Precision-machined oval gears (likely PEEK or similar chemically resistant material) for longevity and minimal wear.

## 8. Compliance, Certification & Quality

- The meters are manufactured in Belgium.
- Conformance to relevant manufacturing and calibration standards implied by individual calibration.
- Warranty claims and product support are handled via Lubretec office in Belgium.

## 9. Packaging & Shipping

- Supplied in a protective carton to prevent damage during shipping.
- Dimensions of packaging (for similar models): approx. 340 × 160 × 160 mm.
- Gross weight per unit (packaged): around 2.2 kg.

## 10. Typical Applications

- Workshop fluid dispensing (e.g., AdBlue, antifreeze, windshield fluid)
- Industrial fluid measurement (non custody-transfer)
- Equipment where accurate but compact metering is required
- OEM installations where a modern, electronic flow meter is needed