

LM 1800-PG-μP

Hose end meter with electronical register



Description

The meter mechanism is designed as an oscillating piston meter. The piston revolutions are transferred back leak-proof (no stuffing box) over a magnetic coupling to the LCD-register. A cast aluminium housing is coated with a oven baked epoxy to resist ambient impacts. The electronic register is microprocessor based and is operated by a longlife Lithium battery. The unit of measure and the calibration factor are programmed at the hydraulic test. Unlike other meters these units can be electronically re-calibrated in the field by authorized personnel, when necessary. The entire register module is protected from the wear and tear of normal shop use by a rugged, glasfilled Nylon housing. Meter outlet spouts are available as an option.

Technical data

Flow*	1 - 15 l/min
Operating pressure max.	100 bar
Operating temperature max.	70° C
Accuracy	± 0,5% (± 0,3%)
Weight (without outlet spout)	1,36 kg
LCD register	5-digit
Inlet/Outlet connections	G 1/2"
Viscosity	50 – 50000 mPas
Pressure loss	2 bars
Lithium battery	7 years at normal operation

* Tested with Mobil oil at ambient temperature

Feature

- Magnetically driven
- Leak proof
- Electronic calibration
- No moving parts in the register
- Improved accuracy
- 5-digit LCD-display
- Three decimal point resolution
- 5-digit totalizer
- Lower maintenance costs

Applications

All petroleum products from SAE 5-240 and antifreeze can be metered. Perfect balance and handling make the grip the best for hose reels.

Operation

Before first operation all entrapped air and foreign particles are removed from supply line. A filter is installed in the meter inlet to protect the mechanism against dirt. Depress the RESET button to reset the totalizer to zero before each use. During discharge of oil the totalizer can not be reset, an erroneously press of the RESET button will have no impact on the oil discharge. Total amount used from inventory can be checked periodically by depressing the TOTAL button. False pulses will cause the LCD numbers to flash. If pressing the RESET button does not help, the entire register module should be replaced. Call your closed service location. At simultaneously press of the RESET and TOTAL button (press TOTAL button first), the calibration factor is displayed. If the battery life is at its end or the battery is defect no numbers will be displayed.

CAUTION

The use of meters in applications other than those described in this material may result in inaccuracy and possible meter failure. This meter is designed for petroleum-based products. It is also important that fluids be properly filtered before entering the meter. Foreign particles will cause inaccuracy as well as possible malfunction of the meter. Warranties are void in the circumstances described above.