



FLOWMETER MANUAL TYPE M15

Version 1.1.0



Media	Oil, Diesel, Kerosene, gasoline
Inlet & Outlet	1/2"
Accuracy	±0.5%
Repeatability	≤0.3%
Maximum working pressure	70BAR
Working voltage	3.0V (2*1.5V Battery)
Standby time	1year
Flow range	1-30LPM
Single count	0.00-9999.9
Total cumulative	0-999999
Shift count	0-999999
Unit of measurement	L, GAL, PTS, /QTS
Single measurement clearing	CLEAR
Viscosity range	5-5000(mPas)

Technical changes, misprints and mistakes reserved!
Newest information about our products can be found online

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SAFETY INSTRUCTION AND WARNINGS

 Please read the user manual before using the Flowmeter  Warning sign

1. INTRODUCTION

We would like to congratulate you on the purchase of our Flowmeter. We appreciate your trust. That's why funtional security and operational safety stands by us on first place.



To prevent damage to persons or property, you should read this user manual carefully. Please observe all safety precautions and instructions for proper use of the Flowmeters. Failure to follow the instructions and safety precautions can result in injury or property damage. Please keep this manual with the instructions and safety instructions carefully in order to at any time you can restore them.

2. IN GENERAL

The M15 meter is featuring a turbine measurement system, designed for precise measuring of low viscosity fluids.

- Reliable, economical
- Easy to install and calibrate on site
- Gravity functional thanks to reduced resistance to flow

The meters are developed according to the newest stand of technology, manufactured with much care and go under strict intensive controls – each meter is checked individually.

3. MAIN COMPONENTS

M15



RESET button

LCD Display

CAL button

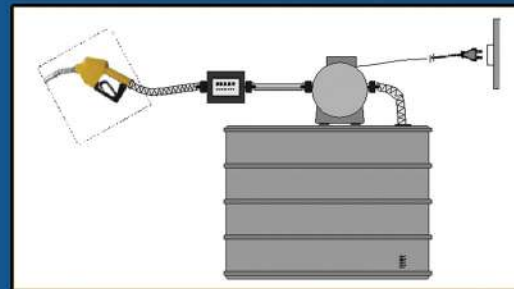
4. INSTALLATION

The installation must be performed by a qualified professional.

The flow meters are designed to be easily installed in any position: fixed in-line or mobile on a dispensing nozzle. In order to improve the life of the meter, it is recommended to fit a strainer before the meter itself.



At the female inlets, tighten the couplings at a max. torque of 55N/m.



5. FUNCTION M15

Without special instructions, the following are measured in litres (L) for the current unit.

5.1. Ready Mode

Ready mode for low power consumption, LCD display the current amount of filling and the cumulative amount of filling, the above number is for filling amount, and the below number is for the cumulative amount of filling.



5.2. The current filling amount, cumulative filling amount and reset

- The above number is for filling amount, and the below number is for the cumulative amount of filling.
- When the measuring pulse input, the current filling amount is up.
- The current filling range & resolution
Range: 9999.9, if >9999.9, reset automatically
Resolution: <99.999 three decimal resolution
 >99.999 <999.99 two decimal resolution
 >999.99 <9999.9 one decimal resolution
- Current filling amount reset
Press RESET, the current filling amount will be reset, LCD display after 1second, display: 0.000L.
- Time total & cumulative total switch
Press CAL, switchover time total or cumulative total display
Time total display: RESET TOTAL. Cumulative total display: TOTAL.



If there is filling pulse input of reset, the display still be RESET TOTAL

5.3. Time total filling amount reset

Press RESET 3 seconds when in ready mode, LCD display like the right picture. Then press CAL, the time total filling amount will be reset and back to ready mode. If press RESET or no press after 3 seconds, it will not reset the time total amount and back to ready mode.



6. CALIBRATION ERROR COEFFICIENT

- Press CAL 3 seconds when in ready mode, LCD display is like the above picture
- Enter the error coefficient of calibration status, the digital flashing
- Press the RESET button, the digital shift, (flashing digital displacement), press CAL key, to modify the current flashing value, from 0 to 9, in turn to 0.
- After 6 seconds without button pressing, ending it and will save the current calibration, and back to readymode
- After calibration error coefficient, if there is a new measuring pulse input, then set new error coefficient for calibration
- Factory calibration error coefficient: 1.000
- Calibration range: 0.100-9.999
- Calibration error coefficient
Calibration error coefficient is used for adjusting error between the real value and LCD display value

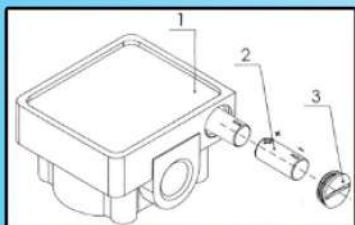


7. UNIT SET

- Press CAL with 3 seconds, LCD display like the above picture
- Press RESET, move the flasing position, till L flashing, enter unit set mode
- Press CAL, choose the current using unit.
- After 6 seconds without button press, ending and it will save the current unit and back to ready mode



8. BATTERY LOW POWER REMINDING



When the battery power is 2.2V-2.4V, it will remind the user to replace the battery.
To replace the battery, see below picture: (1. Flow meter; 2. Battery; 3. Cover)