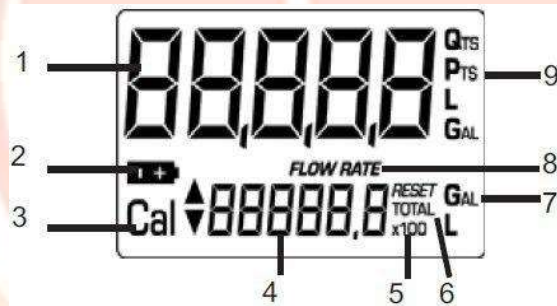


INTRODUCTION MANUAL FMBB17

TECHNICAL DATA

MEDIUM	WATER
ACCURACY	± 2,0 % FSD
REPEATIBILITY	± 0,3 %
MAX PRESSURE	20 BAR
BATTERIES POWERED	3V - 2 BATTERIES 1,5V SIZE AAA LR03
LIFE TIME	2 YEARS



DISPLAY DESCRIPTION:

1. PARTIAL TOTAL
2. BATTERY
3. CALIBRATE
4. TOTAL / RESET TOTAL
5. TOTAL X 100
6. RESET TOTAL
7. UNIT
8. FLOW RATE
9. SELECTED UNIT



UNIT SET

(PAY ATTENTION THIS OPERATION COMPLETELY RESETS THE LITERS STORED)

Press the two RESET and CAL buttons simultaneously for about 3 seconds. This enters the setting mode, the display will show the calibration value (K value) and on the part the unit of measurement will be displayed intermittently. To change the unit press RESET. You can choose between LITERS / GALLONS / QTS (quarts) / PTS (pints). Once the unit of measurement has been chosen, confirm pressing CAL until the display is completely zeroed. The correct execution of this operation is determined by the fixed code on the right side of the screen.

EXAMPLE: if LITERS has been chosen, the letter L will constantly appear on the display.

RESET THE PARTIAL TOTAL

Press the RESET key once while the instrument is in Stand-by.

RESET OF THE TOTAL LITERS

With the liter counter in stand-by, keep the RESET key pressed for about 3 seconds until the values on the display are completely reset. In this way both partial and total liters are reset

DISPLAY THE NON-RESETTABLE TOTAL

Press the RESET and CAL buttons together, the display will show the stored K value with the largest digits and the non-resettable total of the liters counted at the bottom with the smaller digits. There is no possibility in any way to reset or decrease this value.

MAINTENANCE AND STORAGE

The battery life of the flow meter is approximately 2 years for moderate use, while for intensive use it is approximately 1 year. It is recommended to change the batteries as soon as the display starts to blur or the battery symbol appears on the screen.

At the time of replacement, it is advisable to check that there are no traces of rust or oxidation on the electrodes of the battery holder; in this case, remove any residue and then replace the batteries.

If it is not used for a long time, it is advisable to remove the batteries and close the instrument to avoid possible oxidation of the electronic components.

CAUTION:

Using the flow meter with flat batteries or not changing the batteries when recommended, compromises the correct use of the flow meter itself and could lead to the leakage of alkaline liquid present inside the batteries, effectively causing the electronic components to break, making it unusable and not repairable.

CALIBRATION OF THE LITER COUNTER

To carry out this procedure correctly, use a graduated sample container (minimum 5 liters) and dispense the filling under normal operating conditions at a constant flow rate.

ATTENTION: to ensure that the calibration operation is correct, respect the following points

- Use a graduated container (minimum 5 liters) as the correct sample of the reference liters
- Eliminate the air in the metering system (both in the pipes and in the starting vessel)
- Carry out the filling at a constant flow rate, without reducing the supply in the final phase of the operation to reach the last graduated area of the container.
- Follow the procedure below

PROCEDURE FOR CHANGING THE K VALUE

To improve the performance of the liter-counter it is sufficient to perform a simple calculation:

REFERENCE LITERS

_____ X STORED K VALUE = NEW K VALUE

LITERS COUNTED

PRactical EXAMPLE

REFERENCE LITERS = 15,0

LITERS COUNTED = 14,7

K VALUE = 0,175

CALCULATION OF THE NEW K VALUE

a) $15,0 : 14,7 = 1,020408163265306$

b) $1,020408163265306 \times 0,175 = 0,1785714285714286$

Reference liters : Liters counted

Result multiplied by the stored K value = new value to insert

In this case the new value to be entered will be 0.179 (rounded)

With the instrument in STAND-BY press the CAL key for 3 seconds until the display shows the set value of the calibration constant; this value is called VALUE K.

At this point, correct the value by increasing the digits using the RESET key and moving from one digit to the other with the CAL key.

Once the desired value is reached, press the CAL key for 3 seconds to confirm and end the procedure.

WARNINGS:

Not always a single K correction is sufficient to optimize the instrument, so once you have found the new K value, carry out at least 3 tests.

