

floredo



USERS MANUAL

VATTURKAR INDUSTRIAL

Email : vatsmeter@vsnl.net
 WEB : www.vatsmeter.in

Technical Specification

Function	: Rate indication Cumulative / Total count
Power supply	: Built in 3.6 V Lithium battery (auto off 1 min.)
Display	: 7 digit LCD
Accuracy	: ± 2%
Linearity	: 0.5%
Calibration	: Using front panel membrane keys
Protection rating	: IP 65
Unit dimensions	: 90mm X 90 mm X 70mm
Temperature	: max 50°C
Option of display:	Flow rate- LPM, LPH, M ³ /Hr Total flow- Liters , M ³
Flow Range	: 400 to 5000 LPH (for water at room temperature)
Mounting	: Vertical or Horizontal
End connection	: 1" BSP male threading
Battery life	: 1.5 years @ 25°C continuous use 7 years @ sleep mode

Getting started

The supplied floredo is calibrated under standard condition for specified water flow range and is ready to use.

floredo display starts by pressing (⏪) key for one second , since it has auto off facility display get off after selected time period.
 Press (⏪) key to toggle between FLOWRATE & TOTAL.

Display ON time selection

Press (⏪) key for 3 seconds, till the unit will display **PASSWORD**
0000
 Press (⏪) & (⏩) keys to set display as **2111**
 Press (⏪) key, the display will show **SET**
01
 Press (⏩) key to set display **ON** time in minutes. Time can be select 01 to 10 minutes or **CONSTANT ON**, in this mode if (⏪) key pressed for 10 sec long unit can be switched OFF.

CAUTION- In ON mode battery life is short.

Units Selection

Press (⏪) key for 3 seconds, till the unit will display **PASSWORD**
0000
 Press (⏪) & (⏩) keys to set display as **1112**
 Press (⏪) key, the display will show **SET UNIT** for **FLOWRATE**.
 Press (⏩) key to select unit i.e. **LPM LPH M /Hr**
 Press (⏪) key , selected unit will be memorised. Then display will show **SET UNIT** for **TOTAL**
 Press (⏩) key to select unit i.e. **Liters/ M³** then
 Press (⏪) key, selected unit will be memorised. Then display shows regular flow / total reading.

Test & Guarantee Certificate

Product : floredo **Model :** F110
SR. NO. : **Size :** 25 NB

This is to certify that the product mentioned above has been tested and calibrate at our works and has been found working satisfactorily as per the technical Specifications of the product.

Guarantee Certificate

We certify that the instrument mentioned above has been tested by us and is guaranteed for a period of 12 months from the date of dispatch. We undertake to make good by replacement or repair defects arising due to faulty design, material or workmanship within the above mentioned period, provided that the part in respect to which the complaint is made, is sent at the purchaser's expense.

The warrantee is valid subject to:

- 1) The meter or part there of not being subject to alteration, accident, abuse or misuse.
- 2) The installation having been done properly.
- 3) Our liabilities limited up to replacement of unit only.

Date of dispatch :

For VATTURKAR INDUSTRIAL

Authorised Signatory

Calibration

In case if flow rate indicated does not match with actual flow, floredo needs recalibration. Following are the steps to understand how calibration and programing can be done.

Press (⏪) key for 3 seconds, till the unit will display **PASSWORD**
0000

Press (⏪) & (⏩) keys to set display as **2221**

Press (⏪) key, the display will show the **SET SCALE** factor which is factory set.

To calculate correct scale factor use following formula.

$$\text{New scale factor} = \frac{\text{Actual flow}}{\text{Display flow}} \times \text{Old scale factor}$$

Use (⏪) & (⏩) keys to set the new scale factor.

Then press (⏪) key to store the new scale factor. Now the display will show averaging time for flow rate.

SET
00

Press (⏪) & (⏩) keys to set averaging time. Factory set averaging time is 06 seconds.

Averaging time can be set min 1 second and max 30 seconds.

Press (⏪) key, shows regular flow / total reading.

Reset Total

Press (⏪) key for 3 seconds, till the unit will display **PASSWORD**
0000

Press (⏪) & (⏩) keys to set display as **1111**

Press (⏪) key, display will shows **RESET TOTAL?**

Press (⏪) key to reset existing total reading, else press (⏪) key to come out.

Then display shows regular flow / total reading.

Trouble Shooting

Trouble	cause	Action required
Display remains zero even when actual flow is there.	Flow less than the minimum sensing value. Rotar not moving	Check if any down-stream valve is closed. (Open valve) Remove the rotar assembly from the meter, clean the rotar so that the movement is free even with airblow. Replace it
Reading getting displayed but not correct reading.	Rotar not moving freely. Scale factor disturbed.	Remove the rotar assembly from the meter, clean the rotar so that the movement is free even with airblow. Replace it Calculate the correct scale factor and program it as per the recalibration process.
NO display	Key not press properly. Battery life over. Display shows LOWBAT	Press (⏪) key properly. Replace the battery with 3.6 V Lithium battery else contact the nearest dealer for battery. Replace the battery with 3.6 V Lithium battery else contact the nearest dealer for battery.

