Product
Sr. No.
Line Size:
Scale Factor

WARRANTY CERTIFICATE

We certify that the instrument mentioned above has been tested by us and has a limited warranty of 6 months from the date of dispatch. We undertake to make good by replacement or repair defects arising due to faulty design, material and 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 :

The meter or part there of not being subject to alteration, accident abuse or misuse. The installation having been done as per guide lines in the manual. The unit is weather-proof, but if the glands are tempered with for the sake of extension, & if the meter & sensors are separated, leakages may happen - if water enters the meter, warranty stands null & void.

Client: _____

Date of Dispatch _____   For Vatturkar Industrial

ULTRA METER

Advanced Water Meter

FEATURES

Advance Technology and simplicity.
Protection Structure Whetherproof.
Password Protected Meter.
Display Flow Rate /Total.
Cost effective.
Lower installation and maintenance cost.
Battery operated.

Turbine-Flocounter+ is another step to deliver superb Technology and convenience. All in one compact package to suit the growing needs of industry. Our Whetherproof grade enclosures make our flow meter versatile for Field uses. The "Easy to fit" Flocounter increase the efficiency of any plant. This easily programmable, horizontal or vertically mountable Flocounter provides schematic perfection. Variety of materials is available in Sensor like ABS; SS.

TECHNICALS

Function: Rate Indication &Total	Power supply: 3 V Battery Operated	Meter Housing:	ABS
Flow Rate: 1 To 5 m/s	Protection Rating: Whetherproof	Mounting:	Field
Linearity: +/- 1 %	Display: 7 Digits LCD		
Repeatability: +/- 0.5 %			
Viscosity Range: up to 20 cpc			
Meter Size (mm): 150 X 106 X 90			

Plastic add on sensor

Flow Rate range:	10 to 40 LPM
Operating Temperature:	Upto 50° C
Operating pressure:	Upto 5 Bar
Housing:	Noryl/ABS
Bearing Bush:	Delrin
Rotor:	Plain Nylon
Pin :	T.C
Retainer:	G.F
End Connection:	3/4" BSP Male Thread

All VATS electronic flow monitors are high speed micro- controller based units with a high resolution liquid crystal display (LCD). By using front panel tactile keys, one can view / program different parameters. It is very important to read the manual before installation to make better use of VATS Flow Meters. Before you start using VATS 'FloCounter' understand the function of front panel / keyboard in detail.

Key1 is used to enter program and move the cursor left to right

KEY1   KEY2   KEY3

Key3 is the ENTER key, used to confirm & go to next step.

Key2 is for scrolling the numbers from 0 to 9

Programming

1. Display ON time selection :

By pressing KEY1 for 3 seconds the display shows:
PASSWORD
0000
Use KEY1 & KEY2 to set password 2111,
Press KEY3, the display will show:
SET
01
Press KEY2 to display ON time in minutes, time can be selected from 01 to 10 min or constant ON.
In this mode if KEY3 is pressed for 10 seconds the unit switces off.
If we select 01 to 09 the display will remain ON for 1 to 9 minutes
If we select On the display remains ON forever (consumes more battery)
If we select 10 the unit remains ON till there is flow,
as soon as the flow stops, the unit switches off after 1 min.

2. Units Display selection :

By pressing KEY1 for 3 seconds the display shows:
PASSWORD
0000
Use KEY1 & KEY2 to set password 1112,
Press KEY3, the display will show:
SET UNIT for **FLOWRATE**
Press KEY2 to toggle between different units (LPM, LPH, GPM, GPH, M³/Hr)
press KEY3. The selected unit will be memorized, & display moves on to
SET UNIT for **TOTAL**
Press KEY2 to toggle between different units (LITRES, GALLONS, M³)
press KEY3. The selected unit will be memorized,
& display returns to normal.

3. Re-calibration of the Meter :

In case the flow rate or total displayed does not match with the actual, you may need to re-calibrate.

e.g. - If total quantity displayed is 100 litres and by physical measurement the quantity is 98 litres, then one needs to re-calibrate using the formula below.

$$\text{Old scale factor} \times \frac{\text{Actual Volume OR flow rate}}{\text{Displayed Volume OR flow rate}} = \text{New Scale Factor}$$

Hence if the old scale factor is 1032.15,

1032.15 x 98 / 100 = 1011.51

the new scale factor would be 1011.51, when you enter this scale factor you will get the exact reading.

> **Important:**
> Do not alter Scale factor without proper technical knowledge.
> This may result in unreliable readings.

Following are the steps for re-calibration:
Press KEY1 for 3 seconds the display shows:
PASSWORD
0000
Use KEY1 & KEY2 to set password 2221,
Press KEY3, the display will show:
SET SCALE
1000.01   (This is the old scale factor)
note this & calculate new scale factor according to the formula above.
Press KEY1 & KEY2 to input your new scale factor (say 1011.51) &
press KEY3. The selected unit will be memorized, & display moves on to
SET
06
This is the time required for the unit to respond to flow rate change,
e. g. If it's 06, the unit displays the average flow rate in 6 seconds time span.
Press KEY3 & the display returns to normal.

4. Reset the total:

Press KEY3 to reset the total
Then the display returns to normal.

5. Toggle the total and Rate:

Press Key2 to toggle between Total and Flow Rate.

That finishes the preliminary installation guidelines & tips towards proper care & maintenance your flow meter. If you face any problems during & after installation,