



# VORTEX FLOW METER



**Model No.  
UPC-VFM-310**

**HSN CODE: 90261010**

**UPC Instruments Pvt. Ltd.**

**An ISO 9001:2015, 14001-2015 CE & TÜV SÜD Certified Company**



## Salient Features:

- "UPC-VFM-310" Vortex flow meters uses piezo sensor.
- High accuracy, High stability,
- No Pressure Loss
- Simple Structure
- Good Medium generality
- Pulse signal output proportional to flow
- Convenient to connect with computer etc.

Test Certificate in Form III\_C as per IBR is Furnished with every supply

## Vortex Flow meter

**"UPC-VFM-310"** Vortex flow meter is a flow measurement device best suited for flow measurements where the introduction of moving parts presents problems. They are available in industrial grade, brass or all plastic construction. Sensitivity to variations in the process conditions are low and with no moving parts have relatively low wear compared to other types of flow meters.

The measuring principle is based on the fact that turbulence forms downstream of obstacles in the flow, such as a bridge pier.

Inside each vortex flow meter, a bluff body is therefore located in the middle of the pipe. As soon as the flow Velocity reaches a certain value, vortices form behind this bluff body, are detached from the flow and transported downstream. The frequency of vortex shedding is directly proportional to mean flow velocity and thus to volume flow.

The detached vortices on both sides of the bluff body generate alternately a local positive or negative pressure that is detected by the capacitive sensor and fed to the electronics as a primary digital, linear signal.

## Main Specification:

|                          |  |
|--------------------------|--|
| Power Supply             | : 12-32VDC   |
| Output                   | : 4~20mA output  |
| Process temp.            | : 250° C For > 250° C consult to our factory   |
| Configuration            | : Flow mode,, Flow unit, Range (Qmax), Density, Display, etc.  |
| Alarm                    | : Low alarm will output 3.8mA, high alarm will output 22.0mA.  |
| K-Factor linearity       | : Provides 2 to 5 Points k-Factor correction.  |
| Local adjust functions   | : Setting range and PV unit, Density, Flow mode, damping, high alarm percent, low alarm percent and recovery etc.  |
| LCD display              | : The first line shows the instantaneous flow. The second line shows the totalized flow. The third line can display the percentage, output current, temperature, pressure, density and so on.  |
| Perfect compensation     | : It supports real-time temperature and pressure compensation for gas, and supports the international standard of steam density table, temperature and pressure compensation for over heat steam, pressure compensation or temperature compensation for saturated steam. |
| Restore factory settings | : If the damping value entered is "05678", it will automatically perform "restore factory settings" (Manufacturers need to perform "Data backup" Operation).   |
| Temperature trim         | : High trim and low trim easily.   |
| Pressure trim            | : High trim and low trim easily.   |
| Applications             | : Steam/ Gas/ Air/ Liquids   |

It has a power-down protection and flow accumulation function.

## WARRANTY

All meter are warranted against any manufacturing defect for a period of 12 months from date of supply, provided the meter has not been misused, damaged, installed for services it is not recommended or the seal has been tampered with. The company shall be liable to furnish part/ parts thereof or full water meter as the company may deem fit.

## UPC INSTRUMENTS PVT.LTD.

AN ISO 9001:2015, 14001-2015 CE & TÜV SÜD CERTIFIED COMPANY

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