

# FLOW METERS

## UQ960 SERIES VORTEX TYPE MASS FLOW METER

### SUMMARY

UQ960 series Vortex flowmeter is one of the vibration flowmeters. It based on "Karman" principle and has simple configuration, and install conveniently. It can measure for liquid, gas, and steam. U960 widely used in petroleum, chemicals, Iron, steel, metallurgy, paper, food, urban drainage and other industries. We use new technology for Battery function and reduce your engineering design headaches. It's a cost-effective and high stability flowmeter.

### FEATURE

- No moving parts
- cell power and reduce your engineering design headaches
- Low power: more than one year
- 5 points non-linear function
- High stability for Automatic check & adjustments
- Low pressure loss
- Wide application for steam, gas liquid

### PRINCIPLE

The periodic shedding of eddies occurs first from one side and then from the other side of a bluff body (Vortex-shedding body) installed perpendicular to the pipe axis. Vortex shedding generates a so-called "Karman Vortex Street" with alternating pressure conditions whose frequency "f" is proportional to the flow velocity "V". The non-dimensional Strouhal number "S" (primary head constant) describes the relationship between Vortex shedding frequency F (in Hz) width b of the body, and mean flow velocity v (in m/s)

$$F=S \cdot v/b$$

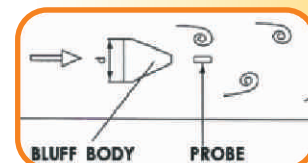
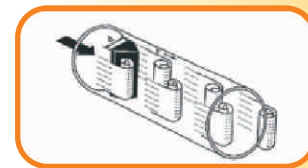
The flexural vibration of the Vortex-shedding body is picked up in the primary head via sensors and analysed in the signal converter. In the case of the gaseous, flowing media, the vibration frequency ranges between 10 and 7000 Hz.



Inline Type



Insertion Type



## SPECIFICATION

DN	DN 25 to DN 3000
Medium	liquid, gas, steam
Pressure	<2.5MPa
Output signal	ElectricityL: 4-2mADC. Pulse frequency: 0-500Hz
Communication interface	RS-485, MODBUS, HART, GPRS
Environment	Temperature: -40 - +60°C, Humidity: 5% - 90%
Accuracy	+ 0.5%, +1%
Repeatability	0.2%
Protect class	IP65, IP68
Explosion-proof	Exd(ib)m 11 CT3-T6, Exd 11 BT2-T5

## APPLICATION

- Petrochemistry
- Metallurgy
- Electricity
- Municipal
- Water treatment



For further details please contact:

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### OUR PRINCIPALS

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