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TURBINE FLOW METER



Turbine flow meter transducer adapts to measure the liquid rate and total flow rate of low viscosity and for clear liquid. It can be widely used in the fields of petrol, chemical Industry , Metallurgy , Scientific research for measuring or control. Several output display methods can be selected.

High-accuracy: 0.2% , 0.5% , 1%

Wearable Tungsten carbonized shaft and bearing.

Erode-resistant applicable for sea water, ammonia , etc.

Bi-Direction measuring bi-direction flow (optional)

Multi-output pulse , 4-20mA DC, total and rate display in the field.

Power-supply 5-24 V DC,

Explosion-proof Ex d II BT4/Ex ib I

Pipeline range 6,10,15,25,40,50,80,100,150,200,250,300 mm.

To have a precise measurement, please inform us as much information as possible about your application in your mail.

In particular, it is helpful to include the medium to be measured, the pipe diameter or schedule, the pressure, and the maximum flow rate.

Please provide following data for proper quotation

- Name of liquid
- Temperature range
- Specific gravity of liquid
- Viscosity of liquid
- Max pressure of system
- Pipe line size

| | | | | | |
|---------------------------|----------|--|--|--|--|
| Turbine Flow meter | | | | | Description |
| Type | A | | | | Flow sensor pulse output three-wire system, +12V power supply |
| | B | | | | Local display , powered by 3.6V battery |
| | C | | | | Local display with 4~20mA ou pulse output,powered by24v. |
| | D | | | | Flow transmitter 4~20mA output,powered by 24V: |

| | | | | | | | |
|-------------------------------|------------|--|---------------|--------------------------------|------------------|----------------------------------|-----------------|
| Nominal drift diameter | 4 | | | Normal flow range m3/hr | 0.04~0.25 | Extended flow range m3/hr | 0.04~0.4 |
| | 6 | | | | 0.1~0.6 | | 0.06~0.6 |
| | 10 | | | | 0.2~1.2 | | 0.15~1.5 |
| | 15 | | | | 0.6~6 | | 0.4~8 |
| | 20 | | | | 0.8~8 | | 0.45~9 |
| | 25 | | | | 1~10 | | 0.5~10 |
| | 32 | | | | 1.5~15 | | 0.75~15 |
| | 40 | | | | 2~20 | | 1~20 |
| | 50 | | | | 4~40 | | 2~40 |
| | 65 | | | | 7~70 | | 3.5~70 |
| | 80 | | | | 10~100 | | 5~100 |
| | 100 | | | | 20~200 | | 10~200 |
| | 125 | | | | 25~250 | | 12.5~250 |
| | 150 | | | | 30~300 | | 15~300 |
| 200 | | | 80~800 | 40~800 | | | |

| | | | |
|-----------------------------|----------|----------|---|
| Explosion protection | | | Not marked, without explosion protection |
| | B | | Explosion protection type |
| Precision class | | A | Precision : Class 0.5 |
| | | B | Precision : Class 1.0 |

NOTE:-

Sensors with pipe diameter of DN4~DN40 are of thread connections with maximum operating pressure of 6.3 Mpa.

Sensors with pipe diameter of DN50~DN200 are of flange connections with maximum operating pressure of 2.5 Mpa.

Sensors with pipe diameter of DN4~DN10 are provided with front and rear straight pipe sections and filters.

Please specify when placing an order if flange connections are required for pipe diameter of DN15~DN40

Please specify when placing an order for high pressure type and special requirements.

VORTEX FLOW METER

PRINCIPAL:-

A Columnar object is inserted into the fluid. Regular eddies occur alternately on both sides of the columnar object. This kind of eddy is called as Kaman vortex. The occurrence frequency is proportional to the flow velocity of liquid, so the vortex frequency is detected by piezoelectric sensor, and the flow rate of fluid may be calculated through the sensor.



ADVANTAGES:-

- Temperature and pressure compensation transmitter receive temperature sensor signal and pressure sensor signal and displays the flow rate of fluid after temperature and pressure compensation, and then the temperature compensation and pressure compensation are realized.
- Explosion Proof : Exia II CT6
Exd II CT6
- Output : 4-20mA / pulse signal
- Display : LCD Instantaneous flow, accumulated flow of measured medium simultaneously.
- Communication :- HART (on request only) , Profibus – DP FF/field bus
- No Moving Components, firm, durable and maintenance-free.

TECHNICAL PARAMETERS:-

| <u>PARAMETERS</u> | | <u>PERFORMANCES</u> | |
|---|--------------------------------|-------------------------------|---|
| ACCURACY | LIQUID | 1.0% , 0.75% | |
| | GAS / STEAM | 1.0% | |
| Repeatability | | ≤ + 0.2% | |
| Allowable Viscosity of measured medium | | < 7.5 mPs | |
| Range ratio | | 1:20 | |
| SENSOR | Flange connection DIN | | DN15~DN600 |
| | Clamping connection DIN | | DN15~DN300 |
| | Medium temperature | Standard Type | -55°C~250°C |
| | | High Temperature type | -55°C~350°C |
| | Pressure range | Standard | ≤ 100 bar |
| | | special | According to demands of users |
| Material | | 304/316/316L/Hast.C/Ti | |
| Transmitter | Power Supply | | 14-28 V DC / battery power |
| | Electrical Interface | | M20 X 1.5/1/2 “ NPT |
| | Display | | LCD |
| | Remote communication | | HART – Protocol Profibus – DP Field bus FF field bus |
| | Ex-Proof | Exia | Exia II CT6 |
| | | Exd | Exd II CT6 |
| | Protection | Standard Type | IP 67 |
| | | Diving Type | IP 68 |
| | Ambient Temperature | | ~40°C~55°C/~55°C~70°C |
| | Material | | Cast Aluminum |
| Power Consumption | | <1 w | |