



BROIL

FLOW | CONTROLLER | AUTOMATION

GLOBAL
SOLUTIONS
FOR YOUR MEASURING

VORTEX



BROIL SENSOTEK INDUSTRIES has evolved into a beacon of innovation and excellence with in the manufacturing and service industries. As an ISO 9001:2015 and CE certified company

- Cutting-Edge Technology Solutions
- Custom Software Development Expertise
- Entrepreneurial Leadership
- Global Recognition High Quality Products
- Comprehensive Customer Support
- State of the art infrastructure
- Dynamic Marketing Strategies
- Cutting-Edge Manufacturing Facility

Vortex flow meters operate based on the von Karman effect, and it's consists of a bluff body. When fluid flow it creates alternating vortices behind a bluff body in the flow stream. These vortices are detected by a sensor, and the frequency of their formation is directly proportional to the fluid velocity. By measuring this frequency, the vortex flow meter accurately calculates the flow rate of the fluid.

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FOR MORE INFO
+91 97265 18181



Plot No 1, 2, 3, 4, Nilkanth
Industrial Park, B/h Dediyanan
G.I.D.C., Nagalpur, Mehsana.



Email : info@broiltech.com
URL : www.broiltech.com

PERFORMANCE DATA

For LIQUID 0.5 to 7 m/s, GAS : 5 to 70 m/s, Steam : 5 to 80 m/s and up to 30 bar pressure and 350 °C Temperature, Sandwich and Joint Connection with various output.

MARKETS & AREAS OF APPLICATION

Vortex flow meter with SS 316 material find applications across various industries due to their versatility and ability to measure the flow of different fluids, including low viscosity liquids, gases, and steam. The market and areas of application for vortex flow meters include Measurement of hydrocarbons and natural gas flow in pipelines, Monitoring flow rates in refineries and petrochemical

Gas : Air, Oxygen, Nitrogen, coal gas, natural gas, chemical gas, and many more....

Liquid : High temperature water, chemical liquid, Clean and Low viscous liquid

Steam : Saturated Steam, superheated Steam

GENERAL SPECIFICATION

Enclosure : SS 316 / Pa 66

Lining : SS316 / PTFE / Pa66

Repeatability : 0.2%

Accuracy (standard position): ± 0.5 for liquid / 1% for gas

Maximum Working Pressure : 30 Bar

Fluid & Ambient Temperature : -20° to 350 °C

Connection : Sandwich / Flange

ELECTRIC CONNECTION

DISPLAY OUTPUT

* Please Check Display Manual

calculate pulse/liter at : 25%, 50%, 75% and 100% flow rate with pure water at room temperature

DISPLAY WITH VARIOUS OUTPUT

Power Voltage : 24 V DC

Output Signal

Retransmit : (4 ~ 20) mA / Pulse

Communication : RS - 485 / HART Protocol / Alarm

Relay : High & Low Flow

Battery Operated Meter

Power Voltage : 3.6 V DC X 4 Lithium Batteries

Display Mode : Double row LCD as below

Q X.XXXXXX Seven Digit Instantaneous Flow
(t/h, t/m, t/day, Kg/h, Kg/m, Kg/s, g/h, g/m, g/s, Nm³/h, SCFM)

XXXXX.XXXX Eight Digit Cumulative Flow

Cumulative flow : Automatically expand the display precision.

The cumulative flow values can be reset.

Power-fail protection : The instrument coefficient ensures that total flow values for the past ten years are retained even in the event of a power supply drop.

ADVANTAGES

vortex flow meter offers a reliable, cost-effective, and accurate solution for flow measurement in diverse industrial processes. Its robust design, ease of installation, and low maintenance requirements make it a popular choice for engineers and technicians seeking efficient flow monitoring solutions.

MODEL RANGE : (SATURATED STEAM)

| Model Number | Pressure | | | | | |
|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| | 1 barG | 3 barG | 5 barG | 7 barG | 10.5 barG | 16 barG |
| BT-VTM - 015 | 5 ~ 37 | 6 ~ 71 | 9 ~ 103 | 10 ~ 136 | 12 ~ 192 | 15 ~ 279 |
| BT-VTM - 020 | 7 ~ 87 | 10 ~ 167 | 14 ~ 244 | 16 ~ 321 | 19 ~ 446 | 23 ~ 619 |
| BT-VTM - 025 | 11 ~ 149 | 15 ~ 284 | 19 ~ 416 | 22 ~ 546 | 28 ~ 754 | 33 ~ 891 |
| BT-VTM - 040 | 27 ~ 373 | 36 ~ 712 | 49 ~ 1042 | 56 ~ 1368 | 69 ~ 1890 | 82 ~ 2234 |
| BT-VTM - 050 | 47 ~ 646 | 63 ~ 1233 | 84 ~ 1805 | 97 ~ 2368 | 120 ~ 3272 | 142 ~ 3867 |
| BT-VTM - 080 | 102 ~ 1414 | 138 ~ 2701 | 185 ~ 3953 | 212 ~ 5188 | 263 ~ 7167 | 311 ~ 8471 |
| BT-VTM - 100 | 175 ~ 2430 | 238 ~ 4640 | 318 ~ 6792 | 365 ~ 8914 | 453 ~ 12315 | 534 ~ 14554 |
| BT-VTM - 150 | 397 ~ 5505 | 539 ~ 10512 | 720 ~ 15387 | 826 ~ 20195 | 1025 ~ 27900 | 1210 ~ 32973 |
| BT-VTM - 200 | 745 ~ 10330 | 1011 ~ 19726 | 1350 ~ 28874 | 1551 ~ 37895 | 1924 ~ 52355 | 2270 ~ 61875 |
| BT-VTM - 250 | 1192 ~ 16530 | 1618 ~ 31567 | 2161 ~ 46205 | 2481 ~ 60641 | 3079 ~ 83779 | 3633 ~ 99013 |
| BT-VTM - 300 | 1677 ~ 23242 | 2274 ~ 44384 | 3038 ~ 64967 | 3489 ~ 85265 | 4330 ~ 117798 | 5108 ~ 139218 |

FLOW UNIT : kg/hr

