

Lafuma[®]

ElectroMagnetic Water Flow Meter



±0.3%



Smart
High
Accuracy

Optional Telemetry
System

Pressure
1~100 Bar
Max.

°C
100

Temperature

RS485



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About Us

ITECHFLOW PRIVATE LIMITED is located in Jaipur Rajasthan India. Our company is a specialized manufacturer of automation instrumentation such as electromagnetic flowmeters, vortex flowmeters, ultrasonic flowmeters, sensor, converter, flow totalizer, Turbine Flow Meter, Gas Flow Meter, Orifice Flow Meter, Our business is established on the basis of high quality, good price, and honesty. All the customers will have our best services and share the most reasonable prices. We have very good cooperation with many enterprises in domestic and abroad. Now our products not only sale on the market of Indian , but also export to the USA, Europe, and other Asian countries, etc.

If you are interested in any items, or your customers require to fill, you can contact us directly. Thank you for visiting our website and we welcome the business discussion through either telephone or email to us.



EMF FLOW METER



TELEMETRY SYSTEM



ULTRASONIC
BATTERY POWER



PIEZO METER WITH
TELEMETRY SYSTEM



HAND HELD ULTRASONIC
FLOW METER



EMF FLOW METER WITH
REMOTE DISPLAY



WALL MOUNT ULTRASONIC
FLOW METER



WATER ANALYZER
COD, BOD, TSS, PH



Electromagnetic Flow Meter



Telemetry System



Ultrasonic Battery Power



Piezo Meter With Telemetry System



Hand Held Ultrasonic Flow Meter



Vortex Flow Meter



Coriolis Mass Flow Meter



**Water Analyzer
Cod, Bod, Tss, Ph**

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Description

Electromagnetic flowmeter consists of sensors and converters in two parts.

The product is based on Faraday's law of electromagnetic induction, used to measure the conductance greater than $5 \mu\text{S} / \text{cm}$ volume of conductive liquid flow, In addition to measuring the general volume of conductive liquid flow, but also can be used to measure strong acid, alkali and other strong corrosive liquids and mud, pulp, pulp and other liquid-solid two-phase suspension of uniform volume flow.

Applications

- Metallurgical industry, cooling water for continuous steel casting, continuous steel rolling, and steel-making electric furnaces;
- Water supply and drainage in water plants. -
- Paper industry, slurry type used in grinding pulp, water, acid, and alkali.
- Coal industry, measuring coal washing and pipeline hydraulic conveying coal slurry.
- Food and beverage industries, tri-clamp and thread types are used to measure beer and beverage.
- Chemical and petrochemical industries, such as acids and alkalis etc

Features

- No moving parts, no pressure loss.
- Self-diagnosis, empty pipe alarm, exciting alarm. high and low flow alarm
- Infrared telecontrol keyboard
- Recording time when power off, record power broken time automatically.
- Dual frequency excitation and stable zero point.
- Precision coil winding technology, makes magnetic field more uniform.
- Built-in reference electrodes, no need to connect ground ring
- Measure forward and reverse direction flows
- High accuracy: $\pm 0.5\%$ of reading, $\pm 0.2\%$ optional, velocity $> 0.3 \text{ m/s}$.

Speciations

- Size : DN10 - DN2500mm
- Accuracy : $\pm 0.5\%$ of reading, $\pm 0.2\%$ optional, velocity $> 0.3 \text{ m/s}$
- Conductivity : Normal liquid $> 5 \mu\text{S}/\text{cm}$
- Protection Grade : IP65, IP67, IP68 optional
- Electrode : SS316L, Hastelloy C, Hastelloy B, Titanium, Tantalum, Platinoidium
- Power Supply : AC85~250V, DC20V~36V
- Power Consumption : $< 20\text{W}$
- Signal Output : 4~20 mA, pulse
- Communication : RS485 Modbus
- Display : LC Display, 128X128mm, Three lines, 4 buttons
- Ambient Temperature : $-20^\circ\text{C} \sim 60^\circ\text{C}$
- Liner Material : PTFE ($-20^\circ\text{C} \sim 120^\circ\text{C}$, DN15-DN1600)
Hard Rubber ($-20^\circ\text{C} \sim 60^\circ\text{C}$,)
PFA ($-20^\circ\text{C} \sim 120^\circ\text{C}$,)
- Velocity : $0.2 \text{ m/s} \sim 12 \text{ m/s}$
- Nominal Pressure : 4.0 MPa (DN10-DN150 As For Customize)
1.6 MPa (DN200-DN600)
- Frequency Output : 1~5000 Hz
- Language : English, Italian
- Flange Standard : ANSI BS16.5 Class 150, 300, 600 (As for Customize)
- Exciting Current : 125mA, 187mA, 250mA, 500mA
- Exciting Frequency : 3.12Hz, 4.16Hz, 6.25Hz 12.5Hz, 25Hz, 30Hz
- Body Material : Stainless Steel 304 (optional)
Stainless Steel 316 (optional)
- Certificates : ISO-9001-2015-CE-MSME,



- Product : Flanged connection Magnetic Flow Meter
- Process connection : Flange
- Caliber size : DN10-DN2500
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC
- Working pressure : 1.0 ~ 6.3 MPa
- Accuracy : $\pm 0.5\%$ std, $\pm 0.2\%$ optional
- Liner : PTFE, PFA, Hard Rubber
- Working temperature : $-20 \sim 120^{\circ}\text{C}$



- Product : Battery-powered Magnetic Flow Meter
- Process connection : Flange, tri-clamp, thread, wafer, insertion
- Caliber size : DN10-DN2000
- Structure : compact, remote
- Power supply : 3.6 V lithium, 3.6 V + 24 VDC
- Working pressure : 1.0 ~ 6.3 MPa
- Accuracy : $\pm 0.5\%$
- Liner : PTFE, PFA, Hard Rubber
- Signal Output : Pulse, RS485



- Product : Tri-clamp / Sanitary Magnetic Flow Meter
- Process connection : Tri-clamp
- Caliber size : DN15-DN100
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC
- Working pressure : 1.6 MPa
- Accuracy : $\pm 0.5\%$ std, $\pm 0.2\%$ optional
- Liner : PFA, PTFA
- Working temperature : $-20 \sim 120^{\circ}\text{C}$



- Product : Insertion Magnetic Flow Meter
- Process connection : Insertion G2" thread ball valve
Insertion 2" flange ball valve
- Caliber size : DN400-DN3000
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC, 3.6V lithium
- Working pressure : 1.6 MPa
- Probe : ABS
- Accuracy : $\pm 1.5\%$
- Working temperature : $-20 \sim 80^{\circ}\text{C}$



- Product : GPRS / GSM Magnetic Flow Meter
- Process connection : Flange, tri-clamp, thread, wafer, insertion
- Caliber size : DN10-DN2500
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC
- Working pressure : 1.0 ~ 6.3 MPa
- Accuracy : $\pm 0.5\%$ std, $\pm 0.2\%$ optional
- Liner : PTFE, PFA, Hard Rubber
- Communication : GPRS, RS 485 Modbus



- Product : Reduced Bore Magnetic Flow Meter
- Special function : No need straight pipe, Increase flow rate
- Caliber size : flange DN50-DN300
- Structure : compact, remote
- Power supply : 8~36 VDC, 85~265 VAC, 3.6V lithium
- Working pressure : 1.0 ~ 6.3 MPa
- Accuracy : $\pm 0.5\%$ std, $\pm 0.2\%$ optional
- Liner : Neoprene

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Description

Lafuma Series handheld ultrasonic flowmeter is designed to work with clamp-on transducers to enable the flow of a liquid within a closed pipe to be measured accurately without needing to insert any mechanical parts through the pipe wall or protrude into the flow system. Using ultrasonic transit time techniques, it is controlled by a micro-processor system which contains a wide range of data that enables it to be used with pipes with an outside diameter ranging from 15mm up to 6000mm (depending on model) and constructed of almost any material. The instrument will also operate over a wide range of fluid temperatures

Applications

- Wastewater and dirty liquid applications
- Chemical compatibility, less maintenance, and low-pressure drop are required..
- Measure the velocity of a liquid through ultrasound to analyze volume flow.
- Coal industry, measuring coal washing and pipeline hydraulic conveying coal slurry.
- measure the disparity between the transit time of ultrasonic pulses which transmits with the direction of liquid flow
- Chemical and petrochemical industries, such as acids and alkalis etc

Features

- High Accuracy, Accuracy better than 1%.
- Wide Measurement Range, Measurement range from DN15~DN6000mm
- Rechargeable Power Supply, Built-in high-capacity NiMH rechargeable batteries will last more than 10 hours(Fully charged)
- Non invasion measurement. Can achieve measurement with clamp on sensors
- Data Storage, 32K BIT built-in data storage,can store two thousand rows of data
- LCD display, LCD display can display the instant flow,total flow,flow velocity and working condition

Specifications

- | | |
|----------------------|-----------------------------------|
| • Principle | : Transit Time |
| • Velocity | : ± 32 m/s |
| • Accuracy | : $\pm 1.0\%$ |
| • Repeatability | : 0.2% |
| • Size | : DN15-DN6000mm (1/2" ~ 120") |
| • Power Supply | : 24 VDC, 220 VAC, 3.6 V lithium |
| • Signal Output | : 4~20 mA, Pulse, RS485 Modbus |
| • Display | : LCD Display |
| • Medium Temperature | : -30°C~90°C std, -30°C~160°C |
| • Turbidity: | : 100000 ppm with a little bubble |
| • Protection grade | : IP65 std, IP68 Optional |
| • Transmitter types | : Portable, Wallmount, Module |
| • Transducers | : Clamp-on, insertion, inline |
| • Data-logger | : Portable type, wallmount type |



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Transmitter



- Product : Portable Ultrasonic Flow Meter
- Caliber size : DN15 ~ DN6000
- Accuracy : $\pm 1.0\%$
- Suitable Sensor : Clamp on
- Communication : RS232
- Power supply : 3.6 V lithium
- Working temperature : $-30 \sim 160^{\circ}\text{C}$
- Data logger : Included



- Product : Wallmount Ultrasonic Flow / Heat Meter
- Caliber size : DN15 ~ DN6000
- Accuracy : $\pm 1.0\%$
- Suitable sensor : Clamp on / Insertion / Inline flange
- Signal output : 4~20 mA, OCT Pulse, Relay
- Communication : RS485 MODBUS-RTU
- Signal input : 3 ways 4~20 mA
- Power supply : 24 VDC, 220 VAC
- Working temperature : $-30 \sim 80^{\circ}\text{C}$



- Product : Modular Ultrasonic Flow Meter
- Caliber size : DN15 ~ DN6000
- Accuracy : $\pm 1.0\%$
- Suitable sensor : Clamp on / Insertion / Inline flange
- Signal output : 4~20 mA, OCT Pulse, Relay
- Communication : RS485 MODBUS-RTU
- Signal input : 3 ways 4~20 mA
- Power supply : 24 VDC
- Working temperature : $-30 \sim 80^{\circ}\text{C}$

Transducers



- Type : Clamp on
- Caliber size : DN15 ~ DN6000
- Working temperature : $-30 \sim 90^{\circ}\text{C}$ std, $-30 \sim 160^{\circ}\text{C}$ optional
- Cable length : 5m
- Protection grade : IP65 std, IP68 optional



- Type : Insertion
- Caliber size : DN80 ~ DN6000
- Working temperature : $-30 \sim 160^{\circ}\text{C}$
- Cable length : 5m
- Protection grade : IP65



- Type : Inline flange
- Caliber size : DN15 ~ DN6000
- Working temperature : $-10 \sim 70^{\circ}\text{C}$ std, $-30 \sim 150^{\circ}\text{C}$ optional
- Cable length : 5m
- Protection grade : IP65 std, IP68 optional
- Flange stand : DIN, ANSI, JIS, AS
- Material : Carbon steel, SS304, SS316

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Description

Vortex flow meter is one kind of velocity type flow meter, it's based on Karman vortex theory and adopts piezoelectric crystal to detect the burble frequency of the fluid caused by flowing through the triangular prism in the pipeline and then measure the flow of fluid. It is widely used in petrol, chemical industry, light industry and power heat supply and so on

Applications

- Measure non-conductive liquids, gases, saturated and superheated steam, especially for steam measurement trade settlement.
- Work as heat meter to measure the Gross/net heat of steam and hot water
- Industrial gases, such as natural gas, nitrogen gas, liquefied gases, flue gases, carbon dioxide etc, all could use vortex flow meter.- Coal industry, measuring coal washing and pipeline hydraulic conveying coal slurry.
- Compressed air monitoring is very important, vortex flow meter also could use for process control
- Thermal oils, Desalinated water, demineralized water, RO water, boiler feed water, condensate water etc.

Features

Integrated pressure and temperature compensation.

- 4-20mA, pulse with ; Optional pulse with RS485
- Wide temperature range up to highest temperature 350°C
- Embedded sensor, 4 piezo-electric crystal encapsulated inside the sensor
- No moving parts, no abrasion, non-wearing parts inside, fully welded SS304 body (Optional SS316).

Speciations

- Size : DN15-DN300mm (1/2" ~ 12")
- Measured Medium : Liquid, Gas, Steam
- Accuracy : $\pm 0.5\%$ inline, $\pm 1.5\%$ insertion
- Measuring range ratio : 1:10(Standard air condition as reference)
1:15(Liquid)
- Flow Range : Liquid : 0.4-7 m/s
Gas : 4 ~ 60 m/s Steam : 5 ~ 70 m/s
: DC20V~36V, 3.6 V lithium
- Pressure Loss Coefficient : $Cd \leq 2.6$
- Vibration Acceleration : $\leq 0.2g$
- Power Supply : 4~20 mA, pulse, RS485 Modbus
- Working Temperature : -40°C~+250°Cstd; 40°C~+350°C
- Nominal Pressure : 1.0 ~6.3 Mpa
- Proceession connection : Flange, wafer, tri-clamp, insertion
- Body Material : SS304 std, SS316 optional
- Cable length : 10m remote
- Protection Grade : IP65

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Transmitter



- Product : Flange Vortex Flow Meter
- Structure : Compact, remote
- Caliber size : DN15 - DN300
- Accuracy : $\pm 0.5\%$
- Signal output : 4~20 mA, Pulse, RS485
- Body material : SS304 std, SS316 optional
- Process connection : Flange
- Working pressure : 1.0 ~ 6.3 Mpa



- Product : Flange Vortex Flow Meter
- Structure : Compact, remote
- Caliber size : DN15 - DN300
- Accuracy : $\pm 0.5\%$
- Signal output : 4~20 mA, Pulse, RS485
- Body material : SS304 std, SS316 optional
- Process connection : Flange
- Working pressure : 1.0 ~ 6.3 Mpa
- Function : Temperature and pressure compensation



- Product : Wafer Vortex Flow Meter
- Structure : Compact, remote
- Caliber size : DN15 - DN300
- Accuracy : $\pm 0.5\%$
- Signal output : 4~20 mA, Pulse, RS485
- Body material : SS304 std, SS316 optional
- Process connection : Wafer
- Working pressure : 1.0 ~ 4.0 Mpa



- Product : Wafer Vortex Flow Meter
- Structure : Compact, remote
- Caliber size : DN15 - DN300
- Accuracy : $\pm 0.5\%$
- Signal output : 4~20 mA, Pulse, RS485
- Body material : SS304 std, SS316 optional
- Process connection : Wafer
- Working pressure : 1.0 ~ 4.0 Mpa
- Function : Temperature and pressure compensation



- Product : Insertion Vortex Flow Meter
- Structure : Compact, remote
- Caliber size : DN80 - DN300
- Accuracy : $\pm 1.5\%$
- Signal output : 4~20 mA, Pulse, RS485
- Body material : SS304 std, SS316 optional
- Process connection : DN50 flange
- Working pressure : 1.6 Mpa



- Product : Vortex Flow Sensor
- Structure : Compact
- Caliber size : DN15 - DN300
- Accuracy : $\pm 0.5\%$ inline, $\pm 1.5\%$ insertion
- Signal output : 4~20 mA, Pulse
- Body material : SS304 std, SS316 optional
- Process connection : Flange, wafer, tri-clamp, sanitary
- Working pressure : 1.0 ~ 6.3 Mpa

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Description

Coriolis mass flow meter is a new type flow meter which is designed according to Micro Motion and Coriolis principle. This kind of new flow meter can measure the fluid directly in a sealed pipeline. It consists of two sections: Sensor and Signal Transmitter.

Applications

- Chemical: containing chemical reaction system
- Petroleum: moisture content analysis
- Lipids: including vegetable oils, animal fats and other oils
- Pharmaceutical
- Fuel: crude oil, heavy oil, coal slurry, lubricant and other fuels
- Food: gas dissolving beverage, health drink and other liquid.
- Low temperature fluid, like liquid oxygen and liquid nitrogen, the low temperature up to -200°C
- High pressure fluid, like slurry flow measurement for oil drilling cementing

Features

- Unique design delivers unparalleled measurement sensitivity and stability
- Unchallengeable QTCMF performance on liquid mass flow, volume flow, and density measurement
- Designed to minimize process, mounting, and environmental effect
- Recording time when power off, record power broken time automatically.



Speciations

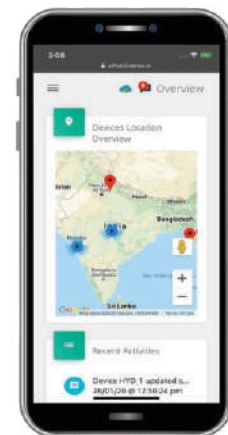
- | | |
|------------------------|---|
| • Size | : DN3-DN150 (1/10" ~ 12") |
| • Accuracy | : $\pm 0.2\%$ std, $\pm 0.1\%$ optional |
| • Repeatability: | : 1/2 measurement accuracy % |
| • Density | : 0.3~3.000g/cm ³ |
| • Body Material | : SS304 |
| • Protection Grade | : IP65 |
| • Power Supply | : 24 VDC, 220 VAC |
| • Signal Output | : 4~20 mA, pulse, RS485 Modbus |
| • Ambient temperature: | : -20~60°C |
| • Measured Temperature | : -200~350°C |
| • Nominal Pressure | : 0.6 ~6.3 Mpa |
| • Process connection | : Flange, thread |
| • Explosion-proof | : Exd (ia) II C T6Gb |

Optional Telemetry System



DESIGNED FOR MODERN DATA SECURITY

- Unlike legacy solutions that were designed in a different era and patched over time, Flowline V1.0 is purpose-built to aggregate and process sensor data securely. Cyber threats continuously evolve, and your industrial IoT architecture should as well. Flowline V1.0's architecture ensures always up-to-date cloud software and seamless over-the-air firmware patches for on-premise devices





More Information
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