

AISTER

Products Catalog



Aister Instrument (Shanghai) Co., Ltd
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Company Description



Aister Instrument (Shanghai) Co., Ltd. is a comprehensive enterprise that integrates research and development, production, and sales of intelligent water meters, flow meters, level meters, and flow detection equipment. The company's primary product range includes thermal gas mass flowmeters, gas (liquid) turbine flowmeters, vortex flowmeters, precession vortex flowmeters, gas roots flowmeters, ultrasonic flowmeters, electromagnetic flowmeters as well as level meter and water meters.



Aister Locates at No. 199 Guangfulin Road in the Songjiang District of Shanghai - south of the G60 Science and Technology corridor - our company enjoys convenient transportation with proximity to the G60 and G15 highways.

Through continuous exploration and innovation, Aister has accumulated years of technical reserves and experience in the field of flow instrumentation. We have rapidly grown into one of the trusted suppliers in the domestic automation industry and enjoying international wide popularity.



Products Overview

Flow Meter



Gas Turbine Flowmeter
ATWG



Gas Roots Flowmeter
ATLQ



Thermal mass Flowmeter
ATMF



Turbine Flowmeter
ATWY



Precession Vortex Flowmeter
ATLU



Electromagnetic Flowmeter
ATLD



Vortex Flowmeter
LUGB



Coriolis Flowmeter
ATCF



Ultrasonic Flowmeter
ATUF

Level Meter



80G Radar Level meter



Ultrasonic Level meter



Magnetic Level meter

Open Channel Flow Meter



Partially filled pipe



Full channel width



Open Channel

Water Meter



Electromagnetic flowmeter



| Performance | Technical parameter |
|---|---|
| Instrument caliber and connection mode | 25、40、50、80、100、150、200、250 Flange connection; |
| Accuracy | ±1.5%R、±1%R |
| Range ratio | 1: 10、1: 20、1: 30 |
| Display mode | The widescreen display simultaneously displays instantaneous flow, daily cumulative flow, and total cumulative flow Temperature, pressure, time, date, battery level |
| Instrument material | Body: 304 stainless steels, cast aluminum material; Impeller: anti-corrosion ABS or high-quality aluminum alloy; Display: cast aluminum; Imported bearing |
| Temperature and pressure sensors | built-in |
| Temperature of the measured medium (°C) | -10°C ~ +100°C |
| Environmental condition | Medium temperature: -10°C ~ +100°C, Relative humidity 5% ~ 90%, Atmospheric pressure 86 ~ 106Kpa |
| Communication signal | Three-wire pulsing Three-wire system 4-20mA、RS485 protocol、IC card signal |
| Power supply | Built-in lithium battery, external 24VDC dual power supply |
| Transmission distance | ≤1000m |
| Signal line interface | Internal thread M20×1.5 |
| Explosion-proof class | ExdIIBT6 |
| Class of protection | IP65 |

Gas Roots Flowmeter

| Model number | Flow specification | Nominal diameter (mm) | Nominal pressure (MPa) | Starting flow (m ³ /h) | Flow range (m ³ /h) | Accuracy |
|--------------|--------------------|-----------------------|------------------------|-----------------------------------|--------------------------------|--------------|
| ATLQ-20 | G16 | 25 | 1.6 2.5 4.0 | 0.05 | 0.5-25 | 1.0级 1.5级 |
| ATLQ-40 | G25 | 40 | | 0.05 | 0.4-40 | |
| ATLQ-65 | G40 | 50 | | 0.06 | 0.65-65 | |
| ATLQ-80 | G65 | 50 | | 0.06 | 0.8-80 | |
| ATLQ-100 | G65 | 50/80 | | 0.08 | 0.625-100 | |
| ATLQ-150 | G100 | 80 | | 0.1 | 1-160 | |
| ATLQ-200 | G160 | 80 | | 0.1 | 2.5-250 | |
| ATLQ-300 | G160 | 100 | | 0.12 | 3-300 | |
| ATLQ-450 | G250 | 100 | | 0.15 | 2.5-400 | |
| ATLQ-650 | G400 | 100/150 | | 0.65 | 4-650 | |
| ATLQ-1000 | G650 | 150 | | 0.65 | 13.3-1000 | |
| ATLQ-1600 | G1000 | 200 | | 1.05 | 32-1600 | |



Thermal Mass Flowmeter



| Performance | Technical parameter | |
|-----------------------|---|-------------------------------|
| Structural form | Insertion type | In-line type |
| Measuring medium | All gases (except Acetylene) | |
| Pipe diameter range | Caliber DN32 or higher | DN10 ~ DN2000mm |
| Velocity range | 0.1 ~ 120Nm/s | |
| Precision | ±1 ~ 2.5% | |
| Operating temperature | Sensor: -40°C ~ +220°C | converter: -20°C ~ +45°C |
| Working pressure | Medium pressure≤2.5Mpa | Medium pressure≤4.0Mpa |
| Power supply | DC24V or AC220V±18W | |
| Response speed | 1s | |
| Output signal | 4-20mA (Photoelectric isolation, large load 500Ω)、pulse、RS-485 (photoelectric isolation)、HART agreement | |
| Alarm | 1-2 relay normally open contact、10A/220V/AC、*/30V/DC | |
| Type of supply | Separate structure, integrated structure | |
| Pipe material | Carbon steel, stainless steel, plastic, etc | |
| Field display | Four lines of Chinese liquid crystal display | |
| Display content | Mass flow, standard volume flow, cumulative flow, standard time, cumulative running time, standard flow rate, etc | |
| Protection grade | IP65 | |
| Sensor material | Stainless steel | Stainless steel, carbon steel |

Turbine Flowmeter

| | |
|-------------------------------|--|
| Executive standard | Turbine flow sensor (JB/T9246-1999) |
| Connection mode | Thread, clamp, flange, clamp type |
| Accuracy | ±1%R、±0.5%R、±0.2%R (to be customized) |
| Sensor material | 304, 316 stainless steel, etc |
| Use conditions | Medium temperature: -20°C ~ +120°C Ambient temperature: -20°C ~ +60°C Relative humidity: 5%-90% Atmospheric pressure: 86Kpa ~ 106Kpa |
| Signal output function | Pulse signal, 4-20mA signal |
| Communication output function | RS485 communication, HART protocol, etc |
| Working power supply | External power supply: 24VDC±15%, ripple ≤±5%, suitable for 4-20mA output, pulse output, RS485, etc Internal power supply: 1 set of 3.6V10AH lithium battery, the battery voltage can work normally at 2.0-3.0V |
| Signal line interface | Basic model: Hausmann connector or three-core cable; Explosion-proof type, internal thread M20*1.5 |
| Explosion-proof class | Exia II CT or Exd II BT6 |
| Protection class | IP65 or higher customizable |



Precession Vortex Flowmeter



| Performance | Technical parameter | | | | | | | |
|-------------------------------|--|------|------|--------|--------|--------|----------|----------|
| | Diameter(mm) | 20 | 25 | 32 | 50 | 80 | 100 | 150 |
| Flow range(M ³ /h) | 1.5~15 | 3~30 | 6~60 | 10~150 | 28~400 | 80~900 | 150~1800 | 360~3600 |
| Accuracy | 1.0~1.5% | | | | | | | |
| Repeatability | Less than 1/3 of the basic error limit | | | | | | | |
| Working pressure(Mpa) | 1.6Mpa,2.5Mpa,4.0Mpa,6.3Mpa; Special pressure can consult customer service | | | | | | | |
| Use environment | Ambient temperature: -30°C~+65°C | | | | | | | |
| | Relative humidity: 5%~95% | | | | | | | |
| | Medium temperature: -20°C~+80°C | | | | | | | |
| | Atmospheric pressure: 86Kpa~106Kpa | | | | | | | |
| Operating voltage | 24VDC+3.6V battery powered, removable battery | | | | | | | |
| Output signal | 4-20mA, pulse output, RS485, alarm output | | | | | | | |
| Applicable medium | All gases (except those with corrosion and moisture) | | | | | | | |
| Explosion-proof mark | ExialIT6Ga | | | | | | | |

Electromagnetic Flowmeter

| | |
|---------------------|---|
| Size | DN3-DN3000mm |
| Nominal Pressure | 0.6-1.6Mpa(2.5Mpa/4.0Mpa/6.4Mpa...Max 42Mpa) |
| Accuracy | +/-0.5%(Standard) +/-0.3% or +/-0.2%(Optional) |
| Liner | PTFE, Neoprene, Hard Rubber, EPDM, FEP, Polyurethane, PFA |
| Electrode | SUS316L, Hastelloy B, Hastelloy C Titanium, Tantalum, Platinum-iridium |
| Structure Type | Integral type, remote type, submersible type, ex-proof type |
| Medium Temperature | -20~+60 degC(Integral type) |
| | Remote type(Neoprene,Hard Rubber,Polyurethane,EPDM) -10~+80degC |
| | Remote type(PTFE/PFA/FEP) -10~+160degC |
| Ambient Temperature | -20~+60deg C |
| Ambient Humidity | 5-100%RH(relative humidity) |
| Measuring Range | Max 15m/s |
| Conductivity | >5us/cm |
| Protection Class | IP65(Standard); IP68(Optional for remote type) |
| Process Connection | Flange (Standard), Wafer, Thread, Tri-clamp etc (Optional) |
| Output Signal | 4-20mA/Pulse |
| Communication | RS485(Standard), HART(Optional),GPRS/GSM (Optional) |
| Power Supply | AC220V (can be used for AC85-250V) DC24V (can be used for DC20-36V) DC12V (optional), Battery Powered 3.6V (optional) |
| Power Consumption | <20W |
| Alarm | Upper Limit Alarm / Lower Limit Alarm |
| Self-diagnosis | Empty Pipe Alarm, Exciting Alarm |
| Explosion Proof | ATEX |



Liquid Turbine Flowmeter



| | |
|-------------------------------|--|
| Executive standard | Turbine flow sensor (JB/T9246-1999) |
| Connection mode | Thread, clamp, flange, clamp |
| Precision class | ±1%R、±0.5%R、±0.2%R (to be customized) |
| Sensor material | 304, 316 stainless steel, etc |
| Use conditions | Medium temperature: -20°C ~ +120°C Ambient temperature: -20°C ~ +60°C Relative humidity: 5%-90% Atmospheric pressure: 86Kpa ~ 106Kpa |
| Signal output function | Pulse signal, 4-20mA signal |
| Communication output function | RS485 communication, HART protocol, etc |
| Working power supply | External power supply: 24VDC±15%, ripple ≤±5%, suitable for 4-20mA output, pulse output, RS485, etc Internal power supply: 1 set of 3.6V10AH lithium battery, the battery voltage can work normally at 2.0-3.0V |
| Signal line interface | Basic model: Hausmann connector or three-core cable; Explosion-proof type, internal thread M20*1.5 |
| Explosion-proof class | Exia II CT or Exd II BT6 |
| Protection class | IP65 or higher customizable |

Coriolis Mass Flow Meter

| | |
|-----------------------------------|--|
| Flow accuracy | ±0.2% Optional ±0.1% |
| Diameter | DN3~DN200mm |
| Flow repeatability | ±0.1~0.2% |
| Density measuring | 0.3~3.000g/cm3 |
| Density accuracy | ±0.002g/cm3 |
| Temperature measuring range | -200~300°C (Standard Model -50~200°C) |
| Temperature accuracy | +/-1°C |
| Output of current loop | 4~20mA; Optional signal of flow rate/Density/Temperature |
| Output of frequency/pulse | 0~10000HZ; Flow signal (Open collector) |
| Communication | RS485, MODBUS protocol |
| Power supply of transmitter | 18~36VDC powers≤7W or 85~265VDC power 10W |
| Protection class | IP67 |
| Material | Measuring tube SS316L housing:SS304 |
| Pressure rating | 4.0Mpa (Standard pressure) |
| Explosion-proof | Exd(ia) IIC T6Gb |
| Environment Specifications | |
| Ambient temperature | -20~-60°C |
| Environment humidity | ≤90%RH |



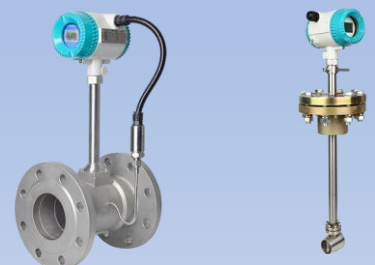
Ultrasonic Flow Meter



| | |
|---------------|--|
| Size | DN25-DN1200mm (1"-48") |
| Accuracy | ±1% of measured value |
| Flow Range | ±0.03 ft/s ~ ±40 ft/s (±0.01 m/s ~ ±12 m/s) |
| Fluid | Single medium liquid |
| Pipe Material | Carbon steel, stainless steel, PVC and other compact material pipe |
| Power Supply | Rechargeable Lithium Battery Power, 3000mAh (Continuous operation of main battery 16 hours). |
| Outputs | Analog output: 4~20mA, Max 750 Ω. |
| Communication | RS485 |
| Interval | 1 ~ 99999 seconds |
| Temperature | Transmitter: -40°C~60°C Transducer: -40°C~80°C (standard), -40°C~130°C(optional) |
| Humidity | Up to 99% RH, non-condensing |
| Protection | Transmitter: NEMA13, IP54 Transducer: IP68 |
| Cable | 5m |
| SD Card | 16G |

Vortex Flow Meter

| | |
|----------------------|---|
| Measuring medium | liquid, gas, saturated steam, superheated steam |
| Accuracy | liquid ±1.0%, gas (steam) ±1.5%, plug-in ±2.5% |
| Working pressure | 1.6MPa |
| Medium temperature | common type -40 ~ 150°C Medium temperature type -40 ~ 250°C high temperature type -40 ~ 350°C |
| Output signal | Three-wire voltage pulse, low level 0 ~ 1V, high level > 4V, duty cycle 50%; Two-wire system standard current 4 ~ 20mA; Three-wire system standard current 0 ~ 10mA |
| Working environment | -35°C ~ +60°C, humidity ≤ 95%RH |
| Working power supply | DC12V; DC24V |
| Material | carbon steel, stainless steel |
| Explosion-proof type | Intrinsically safe ExibIIC T6 |



Level Meter Series

80G Radar Level Meter



| | |
|--------------------------------------|---|
| Frequency | 76GHz ~ 81GHz, 5GHz FMCW bandwidth |
| Measuring range | x0: 0.3 m ~ 60m x1: 0.08m~30m x2: 0.6m ~ 120m |
| Measurement accuracy | ±1mm |
| Beam angle | 3°/6° |
| Minimum measured dielectric constant | >=2 |
| Power | 15~28VDC |
| Communication | 2x: MODBUS 3x: HART/Series |
| Signal output | 2x: 4 ~ 20mA or RS-485 3x: 4~20mA |
| Fault output | 3.8mA, 4mA, 20mA, 21mA, hold |
| Field operation / programming | 128 × 64 dot matrix display / 4 buttons PC software Bluetooth |
| humidity | ≤95%RH |
| Enclosure | Aluminum alloy, stainless steel |
| Antenna type | Lens antenna/anti-corrosive antenna / flange isolated by quartz |
| Process temperature | T0:-40~85°C; T1:-40~200°C; T2:-40~500°C; T3:-40~1000°C |
| Process pressure | -0.1~2MPa |
| Product Size | Ø100*270mm |
| Cable entry | M20*1.5 |
| Recommended cables | AWG18 or 0.75mm ² |
| Protection class | IP67 |
| Explosion-proof grade | ExdialICT6 |
| Installation method | Thread or flange |

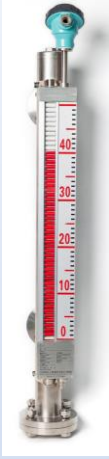
Ultrasonic Level Meter



| Function | Compact Type |
|---------------------------|---|
| Level Range | 4,6,8,10,12,15,20,30m |
| Accuracy | 0.5%-1.0% |
| Resolution | 3mm or 0.1% |
| Display | LCD Display |
| Analog Output | Two Wires 4-20mA/250Ω Load |
| Power Supply | DC24V |
| Environmental Temperature | Transmitter -20~+60°C, Sensor -20~+80°C |
| Communication | HART |
| Protection Class | Transmitter IP65(IP67 Optional),Sensor IP68 |
| Probe Installation | Flange, Thread |

Level Meter Series

Magnetic Level Meter



Magnetic Level Indicator is a type of field indication and control instrument, which is mounted outside or on the top of the tank to indicate and control the liquid level in the tank/vessel. The indicator consists of magnetic color chips.

When the magnetic floating ball in the tube rises with the liquid level, the magnetic color chip is turned over due to the magnetic field and the color changes from red into white or from white into red displaying the liquid level instantly.

According to the user's need, 4-20mA remote transmission signal transmitter, switch signal transmitter, digital liquid level display and etc. can also be mounted on the tube. Magnetic level indicator is applied to the measurement of the liquid level or surface in open or closed pressure vessel

| | |
|--------------------------------|------------------------|
| Product Name | magnetic level gauge |
| Material | SUS 304 and SUS 316L |
| Medium Temp | Below 80 degree |
| Measuring Tube Material | SUS304/SUS316L/PP/PVDF |
| Transmission | customized |

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