Gas/Liquid
Mass flow controller
pressure controller



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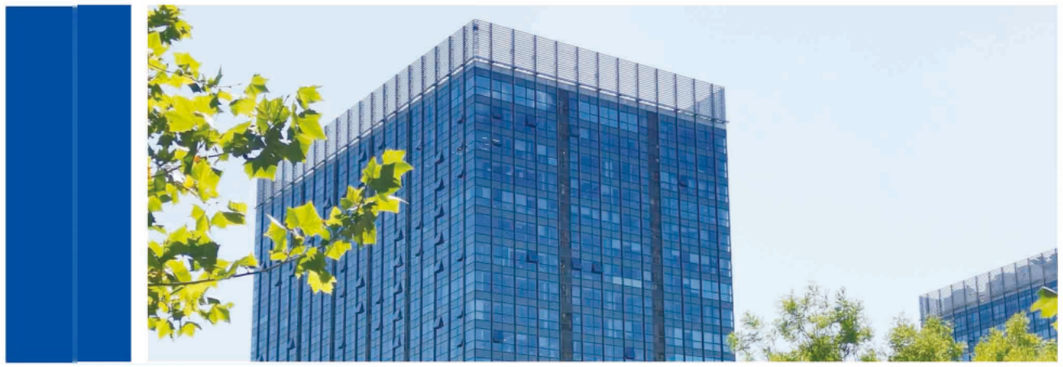
Beijing Accu-Flow Technology Co., Ltd.

Company Profile

ABOUT US

ACCU (Beijing Accu-Flow Technology Co., Ltd.) is a famous supplier of process instrumentation and automation control equipment. As a leader in measurement and control technology, the company's products have been selling well at home and abroad for many years.



Company Development

DEVELOPMENT

Beijing Accu-Flow Technology Co., Ltd. specializes in the design and manufacture of process instrumentation and automation equipment. The products are used in various occasions such as industrial process control gas and liquid analysis and flow measurement. With the international leading technology starting point, as well as its own solid technical foundation, continuous innovation design and lasting development, to create excellent performance and high efficiency. Stable and reliable quality products.

APPLCATION AND PATENT

ACCU is one of the first companies to introduce thermal principles into mass flow measurement in the industrial field, with the world's leading technology in the development and production of thermal flow meters. At the same time, we have many invention patents, which enables us to maintain an advanced level in core technology. For example: sensor temperature compensation technology, multi-variable flow measurement technology atmospheric dust concentration detection system, air pollutants online detection system.



Patent Certificate



Patent Certificate



Soft Certificate



Soft Certificate



Soft Certificate

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Coriolis Mass Flow Controllers & Meters

ACU20FE

- No thermal drift, negligible temperature shift and time drift
- Precision gas is 0.5%F.S, liquid gas is 0.25%
- High cost performance, strong reliability, long life



Product application

Food, (petroleum) chemistry, pharmaceutical industry, fermentation equipment, semiconductor processing, fuel cell, various instruments analysis

Range

Low：0~(20g/h-25kg/h)
Medium：50kg/h-100kg/h
Big：100kg/h-300kg/h
Huge：300kg/h-1000kg/h

High-precision mass flow controller / flowmeter

ACU20FD

- Precision is up to ±0.5%F.S
- The integrated PID controller regulates the flow rate
- Repeatability up to ±0.2%F.S
- Touch the display screen, easy to operate



Product application

Glass industry, solar energy, atmospheric monitoring, industrial production, petroleum and petrochemical, coal gold management, gas production and gas distribution, environmental protection, hydrogen energy / fuel cell, various instrument analysis

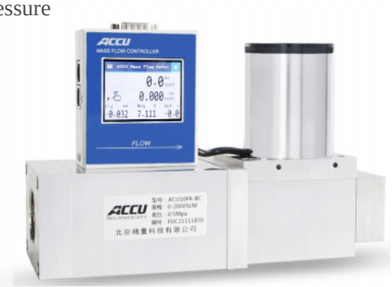
Range

Low:0~(2SLM-30SLM)
Medium：30SLM-300SLM
Big：300SLM-3000SLM
Huge：3000SLM-20000SLM

Low-pressure differential mass flow controller / flowmeter

ACU20FDR

- Thermal type principle, fast response, high accuracy
- Suitable for all kinds of low pressure and high pressure pipes
- It can meet the special working conditions of large flow rate, low pressure difference and other special working conditions
- Short preheating time, zero drift, and high reliability



Product application

Glass industry, solar energy, atmospheric monitoring, industrial production, petroleum and petrochemical coal metallurgy, gas distribution and environmental protection, various instrument analysis

Range

Low：150-600SLM
Medium：600-1200SLM
Big：1200-4000SLM
Huge：4000-6000SLM

Digital pressure controller / pressure gauge

ACU20P

- Accuracy ± 0.5%
- Double valve pressure controller can stably adjust the pressure of closed vessel
- This series of instruments has high accuracy and good repeatability, divided into two kinds: front pressure control and back pressure control



Product application

Vacuum, coating, solar energy, semiconductor, petroleum and petrochemical, coal metallurgy, gas production and gas distribution, environmental protection, various instrument analysis

High temperature mass flow controller / flow meter

ACU20FCH

- Integrated multi-function digital display
- Can quickly and accurately measure the volume / mass flow of high temperature medium (liquid, gas or steam)
- Measure temperature: -20℃-350℃



Product application

Process manufacturing, food analysis, analytical testing and measurement, etc

Range

Gas: 0~ (2 SCCM-3000 SLM)
Liquid: 0~ (2 SCCM- -20 SLM)
Steam: 0~ (2 SCCM-500 SLM)

High-precision liquid mass flow controller / flowmeter

ACU20L

- Quickly and accurately measure the liquid volume flow / mass flow in the process
- Use customized high-speed proportional control valve to accurately control the liquid volume flow / mass flow
- No mobile components and thermal components inside, and not sensitive to the installation direction through anti-vibration test



Product application

Vacuum, coating, solar energy, semiconductor, petroleum and petrochemical, coal, metallurgical gas distribution gas, environmental protection, all kinds of instrument analysis

Range

Low：0~(2SCCM-1SLM)
Medium：1SLM-5SLM
Big：5SLM-20SLM

Differential pressure mass flow controller / flowmeter ACU20FC

- Differential pressure principle, fast response, accuracy can reach 0.5%
- Suitable for all kinds of low pressure and high pressure pipeline
- Preheating time is short, zero drift, high reliability
- Digital input / output, can use flow computer control or display flow



Product application

Vacuum, coating, solar energy, semiconductor, petroleum and petrochemical, coal metallurgy, gas production and gas distribution, environmental protection, hydrogen energy / fuel cell, all kinds of instrument analysis

Range

Low：0~(2SCCM-30SLM)
Medium：30SLM-300SLM
Big：300SLM-3000SLM

Differential pressure pressure differential gas mass flow controller ACU20FCR

- Differential pressure principle, fast response, accuracy can reach 0.5%
- Suitable for all kinds of low pressure and high pressure pipeline
- preheating time is short, zero drift, high reliability
- Digital input / output, can use flow computer control or display flow



Product application

Vacuum, coating, solar energy, semiconductor, petroleum and petrochemical, coal metallurgy, gas production and gas distribution , environmental protection, hydrogen energy / fuel cell, all kinds of instrument analysis

Range

Low：150SLM~600SLM
Medium：600SLM~1200SLM
Big：1200SLM~4000SLM

Controlled evaporation mixer ACU20CEM

- Temperature controller is mainly used for temperature measurement and control of electric heating equipment such as electric heating furnace
- Has low cost, high response speed and high precision control characteristics
- The output signal of high precision temperature sensor is converted into digital signal through low temperature drift and high resolution A / D, and then converted to the corresponding temperature and display the
- Adopts PID algorithm to adjust the heating voltage control part, so as to achieve accurate and fast control



Analog mass flow controller / flowmeter ACU10FA

- Thermal principle, fast response, accuracy 1%
- Suitable for all kinds of low pressure high pressure pipeline
- Short preheating time, zero drift, high reliability
- Analog input / output, can use secondary table or flow computer control and display flow



Product application

Glass industry, solar energy, atmospheric monitoring, industrial production, petroleum and petrochemical, coal metallurgy, gas production and gas distribution, environmental protection, various instrument analysis

Range

Low：0~(2SCCM-30SLM)
Medium：30SLM-250SLM

Digital mass flow controller / flowmeter ACU10FD

- Thermal principle, fast response, accuracy 1%
- Suitable for various low pressure and high pressure pipeline
- Short preheating time, zero drift, high reliability
- Digital input / output, can use secondary table or flow computer control and display flow



Product application

Vacuum, coating, solar energy, semiconductor, petroleum and petrochemical, coal metallurgy, gas production and gas distribution, environmental protection, various instrument analysis

Range

Low：0~(2SCCM-30SLM)
Medium：30SLM-300SLM
Big：300SLM-3000SLM

Low-pressure differential mass flow controller ACU10FDR

- Customized valves and PID adjustment functions according to parameters
- Equipped with proprietary high circulation capacity solenoid valves
- Suitable for controlling mass flow with almost no available system pressure
- Low pressure difference will ensure minimum impact on the system, achieve flow control near atmospheric pressure conditions and shorten the system response time



Product application

Process manufacturing, food analysis, analytical testing and measurement, etc

Range

Medium：150SLM-600SLM
Big：600SLM-1200SLM

Liquid mass flow controller/flow meter

ACU10L

- Can quickly and accurately measurement process of liquid volume flow / mass flow
- With unique exhaust hole can easily discharge air
- Using custom high speed proportional control valve for liquid volume flow / mass flow precise control
- Using the patent internal compensation laminar flow pressure difference technology, makes the large flow range fluid still maintain laminar flow motion



Product application

Process manufacturing, food analysis, analytical testing and measurement, etc

Range

Low：0~(2SCCM-1SLM)
Medium：1SLM-5SLM
Big：5SLM-20SLM

Pressure controller / pressure gauge

ACU10P

- Straight through design, provide differential pressure transmitter
- This series of instruments with high accuracy, good repeatability, divided into front pressure control and back pressure control two
- Standard with a piezoelectric diaphragm pressure sensor and digital circuit board, to provide high precision, stable and reliable pressure measurement and control



Product application

Semiconductor process, gas phase and liquid chromatograph, autoclave / reactor pressure control, etc

High Temperature Mass Flow Controller / Flow meter

ACU10FCH

- Fast and accurate measure of the volume / mass flow rate of high-temperature media (liquid, gas or steam)
- Use customized high-speed proportional control valve to accurately control the liquid volume flow/ mass flow



Product application

Process manufacturing, food analysis, analytical testing and measurement, etc

Range

Gas: 0~ (2 SCCM-3000 SLM)
Liquid: 0~ (2 SCCM- - -20 SLM)
Steam: 0~ (2 SCCM- -500 SLM)

Differential pressure gas mass flow controller / flowmeter

ACU10FC

- No thermal drift, negligible temperature shift and time drift, long-term stability 0.1%F.S/ years
- Accuracy 1.0%, flow meter range can be set in the range of 100:1 · instantaneous and cumulative flow, pressure, temperature can be displayed in the
- without preheating, no response lag when measuring



Product application

Process manufacturing, food analysis, analytical testing and measurement, etc

Range

Low：0~(2SCCM-30SLM)
Medium：30SLM-300SLM
Big：300SLM-3000SLM

High-precision mass flow controller (withstand pressure of 40MPa)

ACU20FD

- Thermal principle, higher accuracy, faster response, with network port
- Suitable for all kinds of low pressure and high pressure pipeline
- Short preheating time, zero drift, high reliability
- Analog input / output can be used secondary table or flow computer control and display flow



Product application

Vacuum, coating, solar energy, semiconductor, petroleum and petrochemical, coal metallurgy gas distribution gas, environmental protection, all kinds of instruments

Range

2SCCM～100SLM

Multivariable flowmeter

ACU10F

- Differential pressure/pressure/temperature/ cumulative compensation four-in-one
- Wide range ratio, up to 8:1 to 30:1
- Easy installation, small pressure loss, high strength
- Not affected by wear, no leakage
- Widely used, mainly measuring gas

Measurement signal stability, small fluctuations

- Suitable for large round pipe, square pipe



Thermal Mass Flowmeter

ACU100

◆ Use standard precision wind tunnel calibration, using constant temperature principle of heat dissipation King's law of (cooling) effect
◆ Good stability. Can measure a variety of gases, direct output mass flow,
No temperature and pressure compensation required
◆Fast response double armored sensor
The low flow rate of sensitive response, high flow rate can also achieve good accuracy
◆The expert algorithm of the full range segment ensures the accuracy of the measurement.



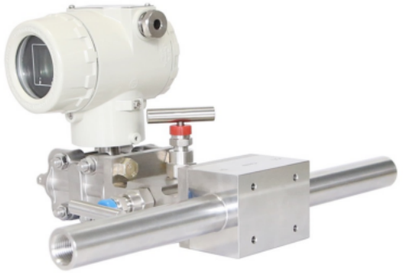
Range

0 ~ 180 N m/s (Standard status is 0℃,101.33KPa)

Laminar differential pressure multivariable flow meter

ACU10F

◆ Use differential pressure, absolute pressure and temperature sensors to measure and compensate for gas Flow, pressure, temperature, measurement standard status (such as 1ATM @ 25 ℃)
Volume flow of gas under
◆ It can measure 4 parameters: mass flow, volume flow, temperature and absolute pressure ◆ Due to the linear relationship between differential pressure and flow, our laminar flow differential pressure flowmeter
High measurement accuracy over a very wide measurement range



Measuring range

① Medium temperature: -50-300℃
② pipeline pressure: 0-40 MPA
③ standard flow rate: 0-10 SCCM ~ 3000 SLPM

Pressure transmitter

ACU10F

◆ Sensors can be specified by the user to improve long-term field applications
Reliability
◆ Due to the different costs of various sensors, through effective selection of appropriate
The sensor can also reduce the purchase cost.
◆ Advanced design, exquisite technology, combined with the flexible selection of sensors, make the ACU10F series transmitter realize the perfect unity of reliability and low cost.



Flow display controller

ACU10FA XS

◆ Provide working power for mass flow controller or flowmeter
◆ Manual operation control for flow setting
◆ Display of gas flow
◆It can be used in conjunction with other types of mass flow controllers · Wide voltage range, strong anti-interference ability, passed CE certification



Output voltage (MFC used)

+15V±3%,-15V±3%

Flow display controller

ACU10FD-XS

◆ Provide working power for mass flow controller or flowmeter
◆ Manual operation control for flow setting
◆ Display of gas flow
◆Can be used with other types of mass flow controller
◆Wide voltage range, strong anti-interference ability, through CE certification



Output voltage (MFC used)

+15V±3%,-15V±3%

Traffic computer

ACU10FD-XP

◆ 7 inch monochromatic LCD with backlight STN
◆ It can be used with various types of MFC/MFM or PLC(MODBUS protocol)
◆ Multi-channel same-screen display and single-channel multi-parameter display
◆With alarm list function, and display alarm information line by line
◆Software can be customized, keys can be defined as function keys
◆ Time-by-time accumulation function and password protection function

