Siemex

DATASHEET
Doc. DS-0009 · Rev. A

KEY FIGURES

±1.0 %
Measurement accuracy (0.3–5.0 m/s)

DN15–32
Pipe diameter (OD20–OD40)

IP66
Waterproof grade

0.1–10 m/s
Velocity range

RANGE OF APPLICATIONS

- Semiconductor
- Food
- Medicine
- Beverage water
- Washing products
- Printing and dyeing
- Chemical products

MODEL X2

ETM™ Flow Meter X2

Pipe Type Ultrasonic Flowmeter · External Card Integrated X2 Series





Display:
The 1.5-inch IPS LCD display has a rich/diverse four-way display that can read easily from either vertical or horizontal mount.



Measuring tube section:
Protection Grade IP66 injection molding structure by the order of two connected, convenient and reliable.

Description

We focus on the development of flow measurement technology, products specifically measure the flow of various liquids in the pipeline, to achieve real-time flow measurement in the production process, instrument output digital signal, analog signal, etc. , participate in the measurement and control of production process.

Due to the need of industrial upgrading, the instrument needs to have rich output to achieve automation, while the traditional flowmeter output is relatively simple, can not meet the needs of the field, and to replace the original position, we have introduced the tubular flow meter, all straight tube pressure loss-free design, double by order connection, installation is simple.

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ETM™ Flow Meter X2

Model X2 · DN15–DN32

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4 Flow Range & Dimensions

Your Advantages



1. The tube-section ultrasonic flowmeter has an advanced measuring chip (time resolution of 20PS).
2. The 1.5-inch IPS LCD display has a rich/diverse four-way display that can read easily from either vertical or horizontal mount.
3. Protection Grade IP66 injection molding structure by the order of two connected, convenient and reliable.
4. Innovative Menu Mode (drop-down list) with four easy touch button settings (no need to remember menu number)

Product Highlights

- ✓ Double by order (live connection) connection mode, simple and reliable;
- ✓ Straight tube design no pressure loss;
- ✓ No professional knowledge, according to the menu to complete the installation and measurement.

Application Industry

Since its launch, the product has been widely used in the cleaning equipment industry. Due to its simple installation and operation, as well as reliable measurement performance, it has been continuously promoted in new industries.

Main industries: semiconductor, food, medicine, beverage water, washing products, printing and dyeing, chemical products etc.


Semiconductor


Food industry


Flat glass cleaning


Pharmaceutical ratio


Beverage industry


Fine chemicals

Suitable For Media

The main application is in the measurement and control of water (tap water, pure water, ultra pure water). Due to the continuous promotion of the application industry, for various acids, alkalis, organic liquids, chemical solvents, alcohol, beverage water It has also been well applied.

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Technical Data

MEASUREMENT

Product name	Time difference ultrasonic flowmeter
Measurement accuracy	±1.0% (0.3m/s-5.0m/s)
Velocity Range	0.1m/s-10.0m/s
Linearity	1.0%
Repeatability	0.4%
Response time	500ms
Suitable measuring medium	Water, solution, chemical reagent (impurity ≤4%)
Medium temperature	0°C-60°C
Suitable for measuring viscosity	300CST(mm^2/s)

DISPLAY AND OPERATION

Screen display	1.54″ 240 * 240 IPS LCD four-way rotation (easy to read)
Menu language	Simplified Chinese, traditional Chinese, English
Display unit	Support metric system unit selection, M 3/h, LPM, ml/min, GPM, LPH, factory default unit is LPM
Display data	Instantaneous flow, instantaneous flow rate, net accumulation, single accumulation, daily maximum, daily minimum, daily, monthly and yearly accumulation
Accumulator	7-bit flow accumulator
Cumulative data	10 years, 64 months, 64 days
Operation Button	4 touch keys
Calendar Battery	CR1220

ELECTRICAL DATA

Power configuration	24VDC@3W
Communication interface	RS485, supports Modbus RTU communication protocol
Analog output	4-20 MA, maximum load 600 ω
Relay output	(Matching) 30VDC@1a, switching frequency less than 2hz
Cable length	2.0 m (up to 20 m)

INSTALLATION AND ENVIRONMENT

Waterproof grade	IP66
Installation method	All-in-one pipe, PVC-U connected by order (Live)
Pipe diameter specification	OD20(DN15-½"), OD25(DN20-¾"), OD32(DN25-1") ,OD40(DN32-1½")
Material of receiving liquid	UPVC
Operating temperature	-10°C-60°C
Ambient humidity	Relative humidity 0% -95% , no condensation

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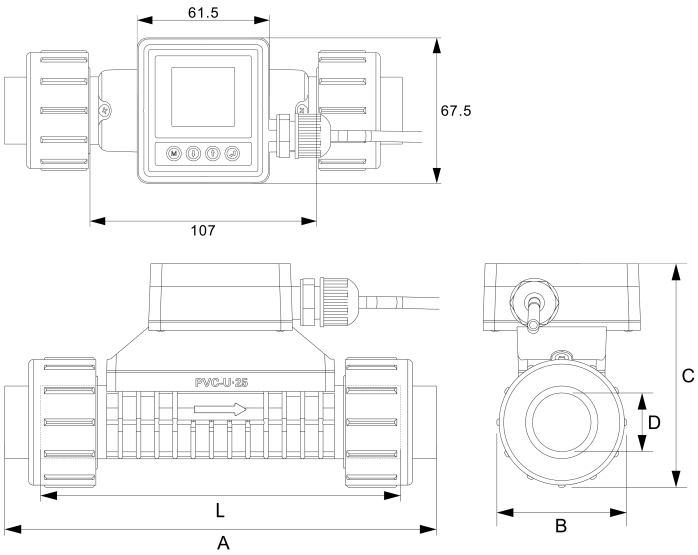
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Flow Range

The pipe material (the receiving part) is PVC-U, which can meet the flow rate of corrosive liquid except water such as acid and alkali liquid. The measuring instrument is connected by double-order mode, so it can be installed conveniently, if the site is a metal pipe, it can also be converted to threaded by the rich fittings PVC-U corrosion resistance is shown in the table below.

MODEL		-20	-25	-32	-40
Outer diameter of plastic pipe	mm	Φ 20	Φ 25	Φ 32	Φ 40
Metal pipe (Metric)	DN	DN15	DN20	DN25	DN32
Metal pipe (British System)	NPS	4divide	6divide	1cun	1.2cun
Flow (l/min)	min.	1.1	1.9	2.9	4.8
	max.	53	94	147	241
Flow (m^3/h)	min.	0.06	0.11	0.18	0.29
	max.	3.19	5.65	8.82	14.46

Specifications And Dimensions



MODELS	NOMINAL PIPE DIAMETER	L	A	B	C	D
PVC-U · 20	DN15	146	182	53.5	94.4	20
PVC-U · 25	DN20	149	189	57.3	98.2	25
PVC-U · 32	DN25	157	205	70	108	32
PVC-U · 40	DN32	157	211	83	118.5	40

Note: L is the length of truncated pipe section during installation; d is the outer diameter of pipe section during installation. Unit: mm

QUALITY

MODELS	PVC-U·20	PVC-U·25	PVC-U·32	PVC-U·40
Packing size (mm)	220*120*143	220*120*143	220*120*143	220*120*143
Weight (KG)	0.67	0.72	0.81	0.95

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