Flow Measurement, So easy
ETM™ Flow Meter

Compact Ultrasonic Flowmeter — Series A-X2

α The flowmeter is directly connected to the pipeline to reduce uncertainty and is simple and reliable

α With no professional knowledge, it can be measured with power on. With flip menu on screen, it can be used easily

α No moving parts, straight pipe design, no pressure loss

ACI Inc.

PRODUCT INTRODUCTION

The products serve real-time flow measurement and participation process control in the production process. The main customers industries are: chemical production process, fine chemical production, cleaning industry, beverage industry, etc.

With the world's most advanced time measurement chip (time resolution of 50ps), products has developed a new generation of stable A-X2 series "ETM™" flowmeters.

The A-X2 is designed with an integral structure and can be measured simply by connecting to the pipe. It also adopts the current popular OLED display, which makes it easy to read in low light conditions.

A-X2 is widely used in the production process flow measurement and monitoring. The application of the product continuously and effectively controls the flow of the fluid, so as to improve the yield of the product and even save the input of the personnel, bringing benefits to the production enterprise.

A-X2 also satisfies different clean fluid measurements: various acids, alcohols, chemical solvents, alcohol, beverage water, Coca-Cola water, etc.

COMPONENT PARTS

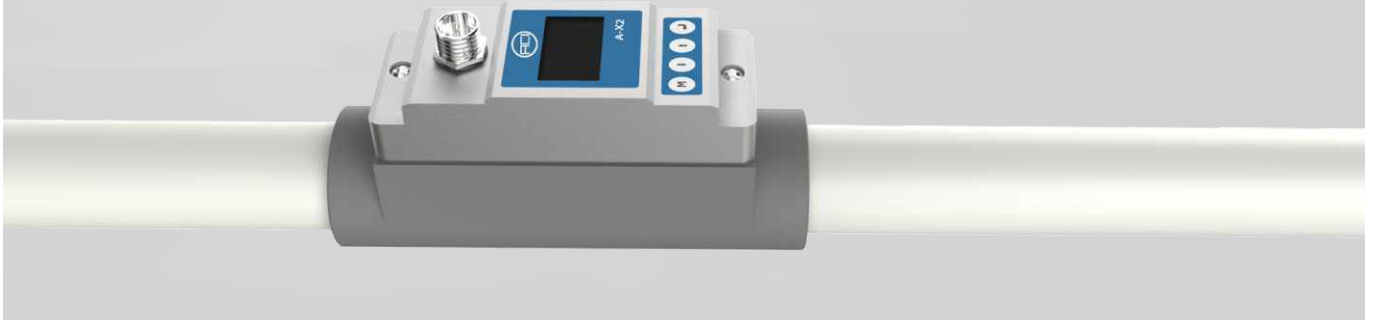|			
ETM™	φ20	φ25	φ32
Connecting cables	φ40	φ50	φ63
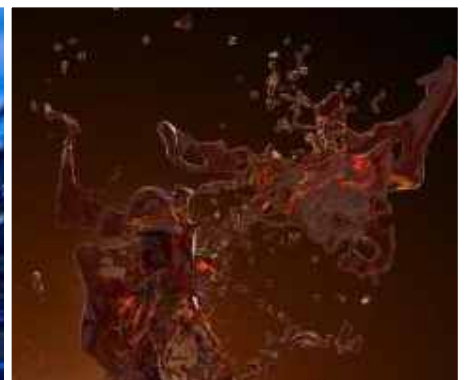
APPLICATION

INSTALLATION STEPS
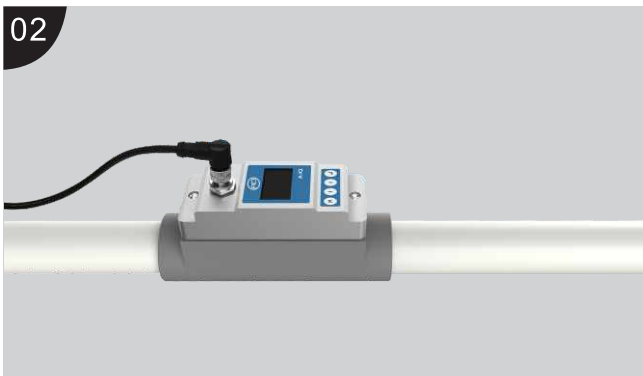
Installation method 1

The installation is simple, apply PVC glue, and the pipeline on site can be directly connected with A-X2, which is convenient and fast.
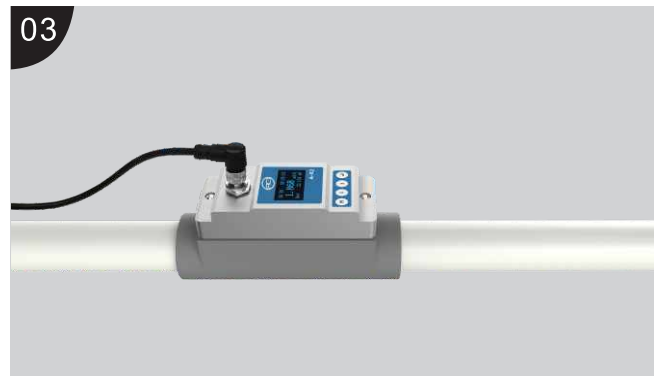
01 Installation method 2

Connect the pipe to the site after adding unions, and it's easy to disassemble and maintenance.

02

Take out the connecting cable, butt the plug and tighten it.

03

DC power supply at the other end of the cable, observer power supply, SQ stability above 50 means stability measurement.
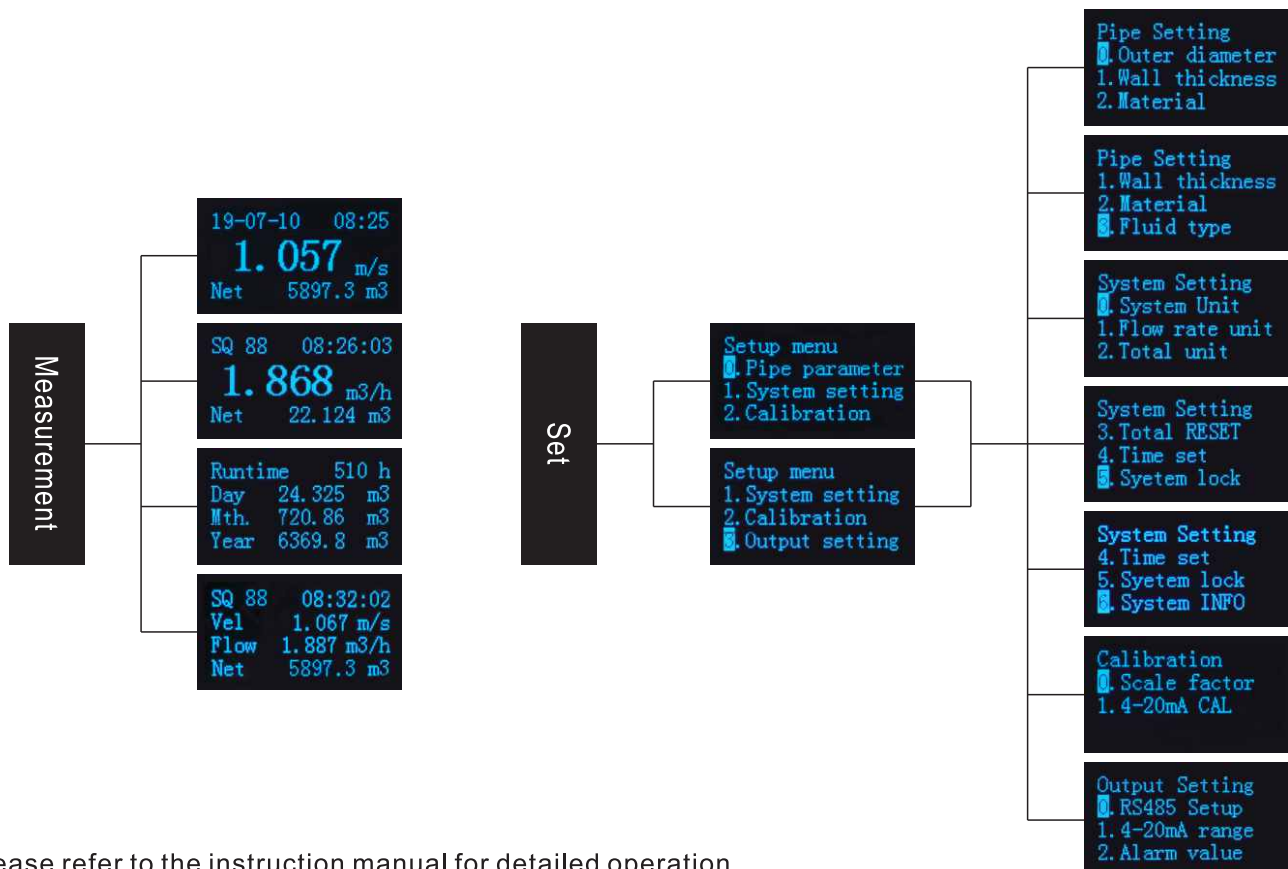
ETM™ SETTING

Special instructions:

ETM™, which is designed for different pipe diameter and fluids, will be set in standard setting before it leaves the factory. There is no need to reset.

DC power and Output

OLED display screen

Keypad area

Tube

DISPLAY MENU

Measurement

```
19-07-10   08:25
1.057 m/s
Net    5897.3 m3
```

```
SQ 88   08:26:03
1.868 m3/h
Net     22.124 m3
```

```
Runtime    510 h
Day   24.325   m3
Mth.  720.86   m3
Year  6369.8   m3
```

```
SQ 88   08:32:02
Vel     1.067 m/s
Flow  1.887 m3/h
Net     5897.3 m3
```

Set

```
Setup menu
0.Pipe parameter
1.System setting
2.Calibration
```

```
Setup menu
1.System setting
2.Calibration
3.Output setting
```

```
Pipe Setting
0.Outer diameter
1.Wall thickness
2.Material
```

```
Pipe Setting
1.Wall thickness
2.Material
3.Fluid type
```

```
System Setting
0.System Unit
1.Flow rate unit
2.Total unit
```

```
System Setting
3.Total RESET
4.Time set
5.Syetem lock
```

```
System Setting
4.Time set
5.Syetem lock
6.System INFO
```

```
Calibration
0.Scale factor
1.4-20mA CAL
```

```
Output Setting
0.RS485 Setup
1.4-20mA range
2.Alarm value
```

Please refer to the instruction manual for detailed operation

PERFORMANCE INDEX

|	
Product	ETM^{TM} flow meter
Model	A-X2
Flow range	0.1 m/s ~ 5.0 m/s
Accuracy	$\pm$ 2.0%
Repeatability	0.8%
Pipe size	φ20(DN15), φ25(DN20), φ32(DN25), φ40(DN32), φ50(DN40), φ63(DN50)
Data storage	Daily, Monthly, and Annual. Flow Totalizer
Analog output	4~20mA, Maximum load: 600Ω
Alarm output	OCT, upper and lower limit alarm function (optional)
Communication	RS485, support Modbus communication protocol
Power supply	24 VDC
Cable length	1.8m
Keypad	Four light touch buttons
Screen	OLED 128*64 display screen
Units	Metric and Imperial units are available, Cubic Meters(m3), Liters(L), USA Gallons(GAL)/hour, /min, Default unit setting: m3/h
Totalizer	Six digit
Piper material	PVC
Case material	Aluminum alloy
Environment temp.	0°C~50°C
Medium temp.	0°C~50°C
Environment humidity	0-95% relative humidity, without condensation
IP Grade	IP54
Weight	φ20(0.28KG), φ25(0.30KG), φ32(0.38KG), φ40(0.48KG), φ50(0.60KG), φ63(0.73KG)

PIPING SPECIFICATION

Model	A-X2-20	A-X2-25	A-X2-32	A-X2-40	A-X2-50	A-X2-63
Pipe diameter	φ20	φ25	φ32	φ40	φ50	φ63
Pipe diameter	15mm	20mm	25mm	32mm	40mm	50mm
Nominal name	DN15	DN20	DN25	DN32	DN40	DN50
Popular name	4"	6"	1"	1.2"	1.5"	2"

DIMENSIONS

Model	A (mm)	B (mm)
A-X2-20	27	42
A-X2-25	30	47.5
A-X2-32	33	54
A-X2-40	36	61
A-X2-50	42	72
A-X2-63	50	86.5
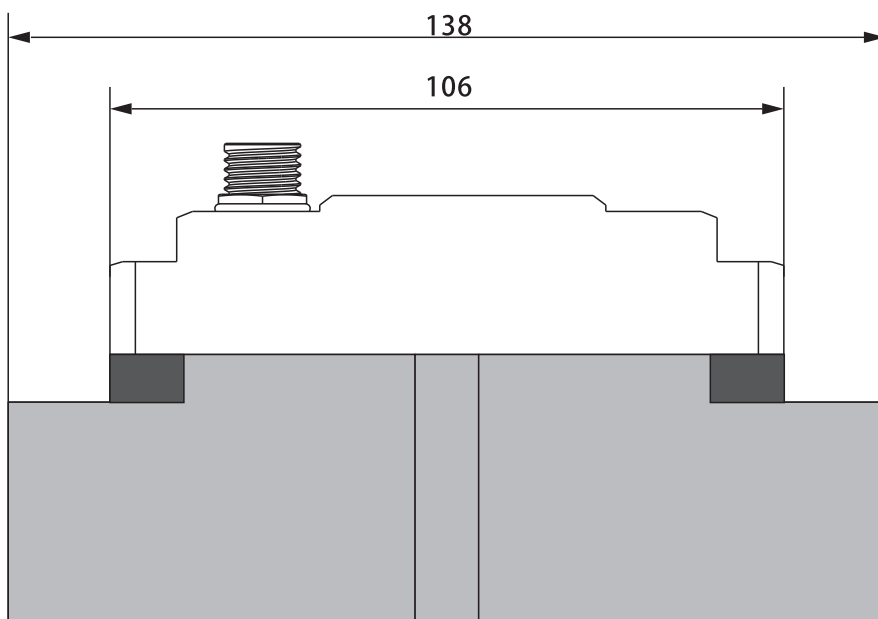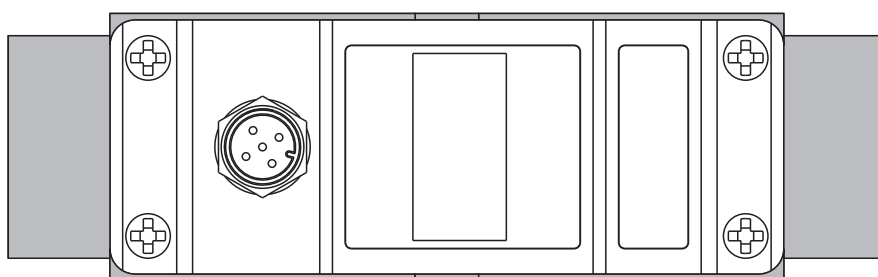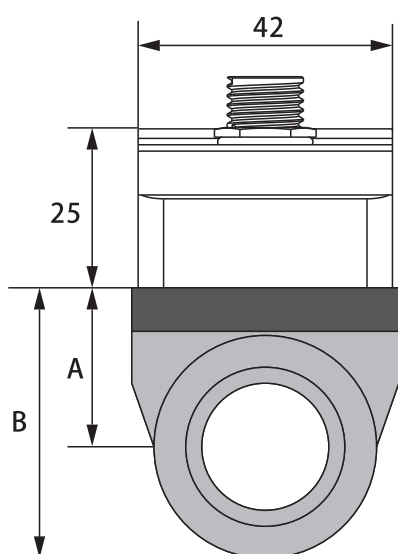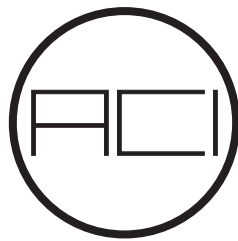
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