Fig.01 Schematic of Wire port

Unscrew the back cover anticlockwise to view the terminal block

Rotatable display direction, if the installation scene requires rotation of display direction, please contact FixInst service team
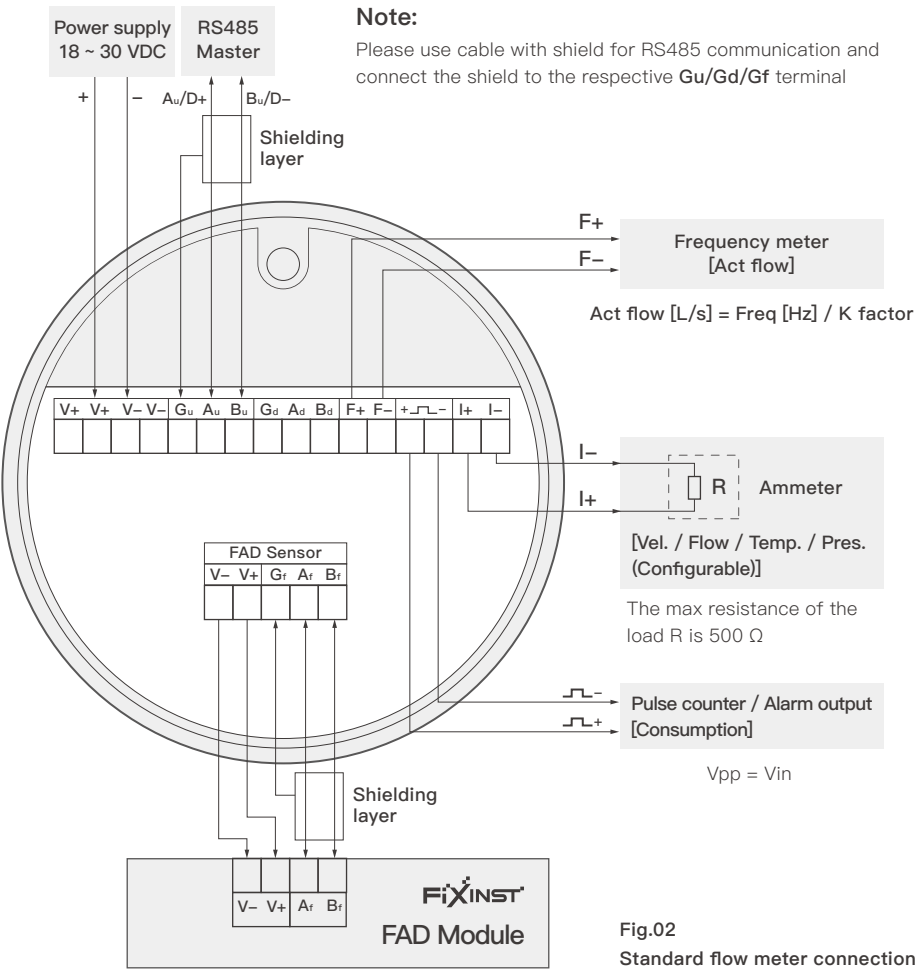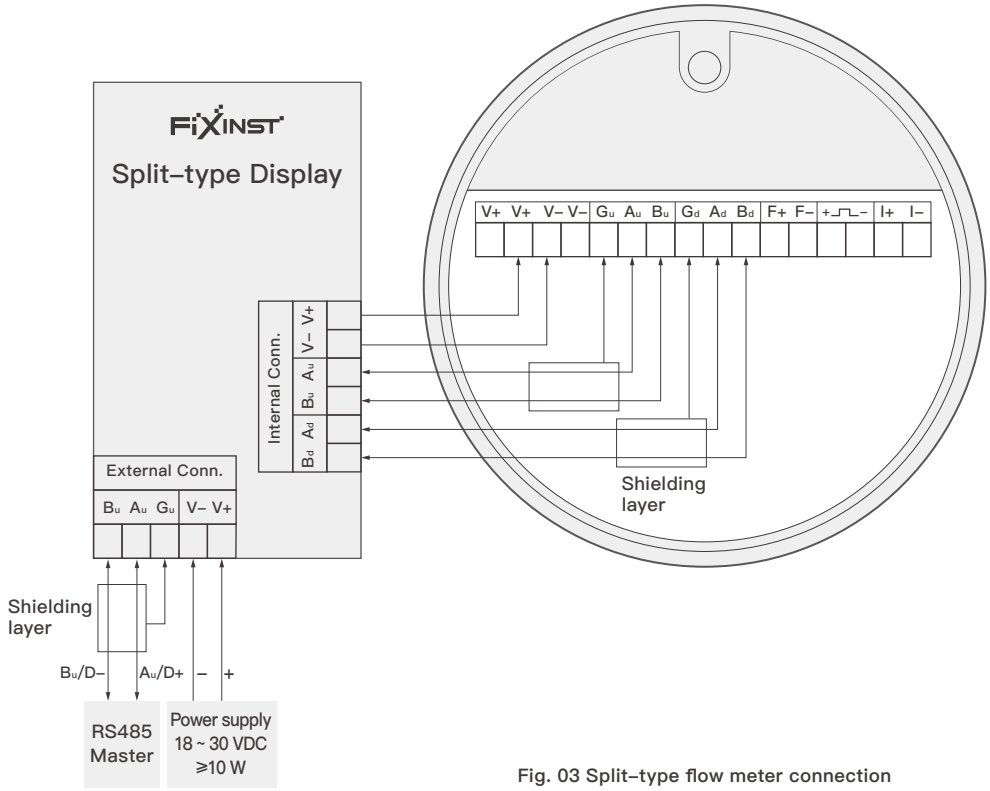
Note:

Please use cable with shield for RS485 communication and connect the shield to the respective **Gu/Gd/Gf** terminal

Act flow [L/s] = Freq [Hz] / K factor

[Vel. / Flow / Temp. / Pres. (Configurable)]

The max resistance of the load R is 500 Ω

Vpp = Vin

Fig.02
Standard flow meter connection

Fig. 03 Split–type flow meter connection

www.fix-instruments.com

Fix Instruments (Shenzhen) Co., Ltd.

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E–mail: sales@fix–instruments.com

Tel: 0755–2359–1123

FixInst WeChat Official Account

Download the Bluetooth APP

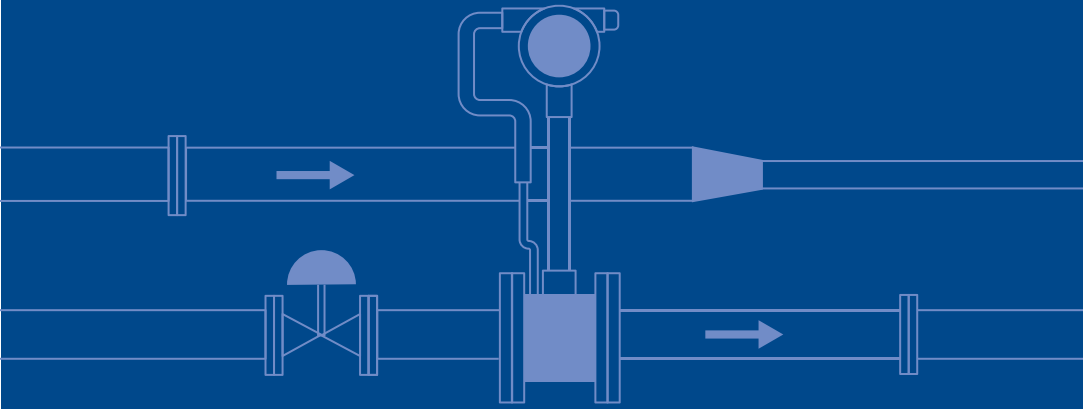# FIXINST

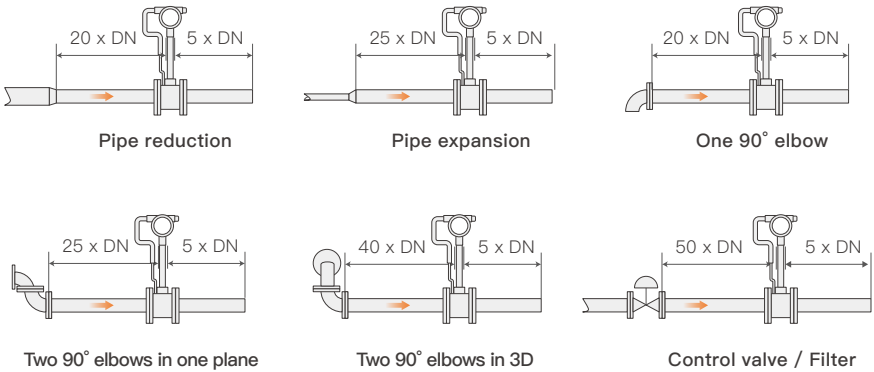## F231x–V Series

QUICK GUIDE

| Vortex Flow Meter |

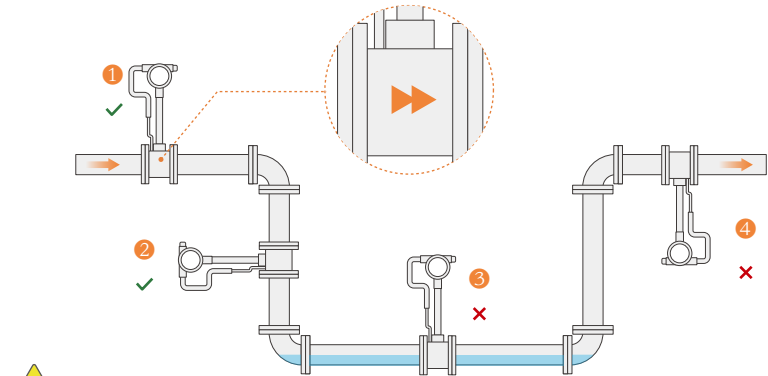
— Experts in compressed air & fluid measurement —

Recommended inlet and outlet straight section

20 x DN	5 x DN	25 x DN	5 x DN	20 x DN	5 x DN
Pipe reduction		Pipe expansion		One 90° elbow	

25 x DN	5 x DN	40 x DN	5 x DN	50 x DN	5 x DN
Two 90° elbows in one plane		Two 90° elbows in 3D		Control valve / Filter	

Installation direction and attention

Please install flow meter according to marked flow direction ▶▶ FLOW ▶▶

Please don't install upside–down and at low position of the piping system
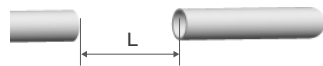

⚠ ATTENTION

- Attention to thermal radiation. Outdoor installation requires additional sunshade
- Prevent instrument exposure to corrosive gases
- Prevent strong pipe vibration, if the pipe vibration is excessive, please implement pipe–fixing action
- Prevent installation operations and electrical connections in flammable, explosive, and other dangerous environments
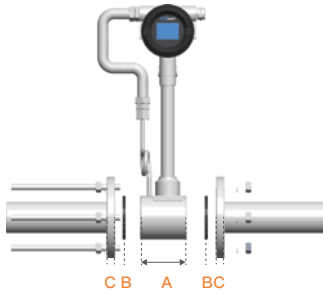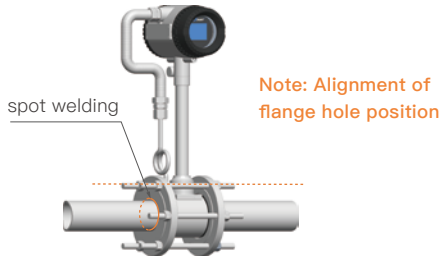
Version: 1.01

F231A–V Wafer–Style

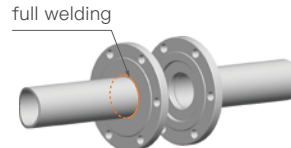Note: Please use the supporting pipe flange of the product

Step 01
Before installation, please confirm that the pipe reservation length **L** is consistent with the flow meter installation specifications
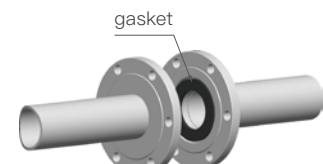
Pipe reservation length $L= A+2B+2C$
A: Product Length   B: Gaskets Thickness
C: Flange Thickness

C B   A   BC

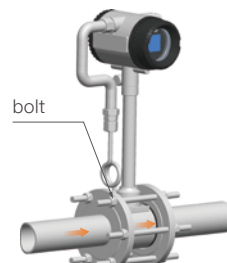Note: Alignment of flange hole position

spot welding

full welding

Step 02
Install flow meter, gasket, flange in the pipe and spot weld flange

Step 03
Remove flow meter and gasket, full welding flange

gasket

bolt

Step 04
After the weld has cooled, insert a gasket on each side of the flange, noting that the gasket must be centered and not extend out of the pipe's inner wall
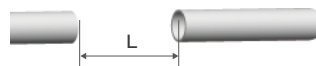
Step 05
Installed into the flow meter (note the direction of the logo on the flowmeter, and the flowmeter body and the pipe must be aligned). Use bolts to fix the flowmeter. Installation complete

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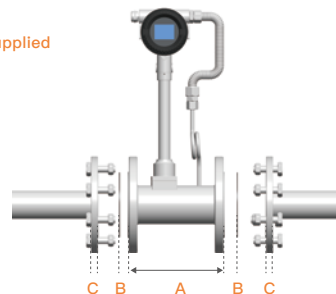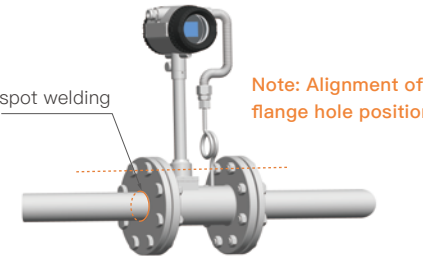**F231B–V Flange–Style**

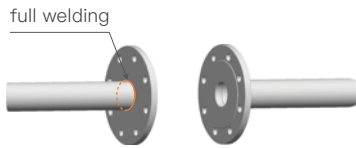Note: Flange–Style requires gaskets and pipe flanges supplied by the customer

Step 01
Before installation, please confirm that the pipe reservation length **L** is consistent with the flow meter installation specifications

Pipe reservation length $L= A+2B+2C$
A: Product Length   B: Gaskets Thickness
C: Flange Thickness

C   B   A   B   C

Note: Alignment of flange hole position

spot welding

full welding

Step 02
Note: Alignment of flange hole position
Install flow meter, gasket, flange in the pipe and spot weld flange

Step 03
Remove flow meter and gasket, full welding flange

gasket

Step 04
After the weld has cooled, insert a gasket on each side of the flange, noting that the gasket must be centered and not extend out of the pipe's inner wall

Step 05
Installed into the flow meter (note the direction of the logo on the flowmeter, and the flowmeter body and the pipe must be aligned). Use bolts to fix the flowmeter. Installation complete