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EPV Vortex Flow Meter -Quick Start Guide-



01 Take Note Before Use

This guide provides basic information to help you get started. Please visit the website to download the full user manual for detailed installation and additional information. Incorrect operation may result in fatal or serious hazards.

Explosion hazard – If maintenance is required, the device must be removed from the hazardous area. To prevent ignition of flammable or combustible gases, disconnect the power supply before servicing. Ensure that the installation of the equipment complies with the applicable national electrical code requirements. Installation of the equipment should only be performed by qualified personnel or factory representatives.

Note:

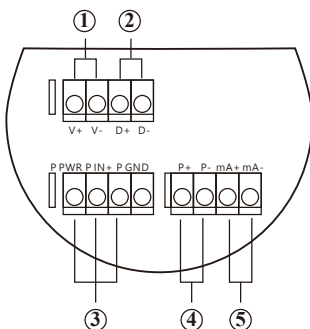
All junction box gaps must be completely sealed using sealing tape or sealant. Failure to seal all gaps may allow moisture to enter the equipment, potentially damaging internal components and voiding the warranty.



02 Wiring

Input voltage: 10.5~36VDC
Input current: 300mA @12VDC
150mA @24VDC

- ① DC power
- ② RS485
- ③ Pressure gauge
- ④ Pulse output
- ⑤ 4-20mA output



Function	Terminal socket name	Remarks
DC power	V+	10.5~36 VDC
	V-	
RS485	D+	
	D-	
Pressure gauge	P PWR	12 VDC 50mA
	P IN+	0~5V / 0.5~4.5V / 1~5V
	P GND	
Pulse output	P+	
	P-	
4-20mA output	MA+	
	MA-	

-Quick Start Guide-

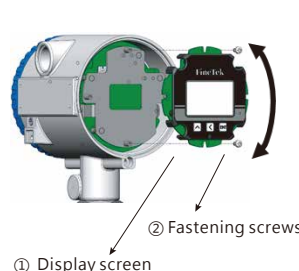
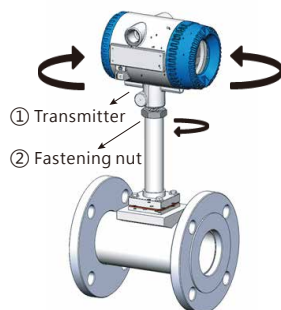
03 Installation Instructions

Circuit installation

- It is recommended that wire with insulated rubber be used. The outer diameter of the wire insulation should be 4.8~7.8mm.
- The resistance of cables should not exceed 10Ω under standard 24VDC power supply conditions.
- The total impedance of the cable drawn from the current output terminal shall not be higher than the specified nominal value.
- The pulse or frequency output is generally NPN crystal output. An external power connection is required.

Notes for Basic Installation

- The vortex flowmeter should be installed in the same direction as the fluid.
- When installing, select a pipe location that produces less vibration. If necessary, mount a pipe support.
- Do not install the transducer in the pipeline connection area or in a pipe area with a welded gap. The smooth area of the pipe surface should be selected.
- To prevent interference with the testing signal, do not install multiple devices in the adjacent area.
- Do not use the same power source with inverter, the flow meter should be powered by an isolated power source
- Please ensure the pipe is fully filled with fluid, and refrain from using multi-phase and viscous fluids.
- Please review the requirements for liquid measurement and installation, air and steam measurement and installation, external pressure gauge installation, and straight pipe segments.



(1) Because the vortex flowmeter should be installed in accordance with the fluid direction, the transmitter direction can be adjusted as needed. First, turn off the power to the flowmeter.

(2) As illustrated, unscrew the fastening nut ② and adjust ① the direction of the transmitter.

(3) To secure the transmitter, tighten the fastening nuts ②. Reminder: Do not disassemble the transmitter to avoid breaking the transducer cable.

(1)The direction of the screen module can be changed depending on how the vortex flowmeter is installed. First, turn off the power to the flowmeter .

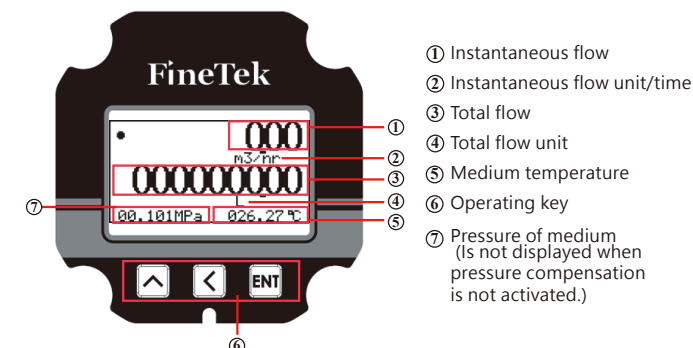
(2)After opening the front cover of the screen, unscrew the fastening nut ② as shown to adjust the direction of the ① display screen.

(3)To secure the display screen, screw the fastening screws② into place, followed by the front cover.

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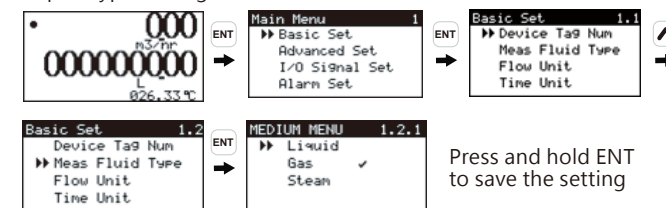
EPV Vortex Flow Meter

04 Description of panel functions

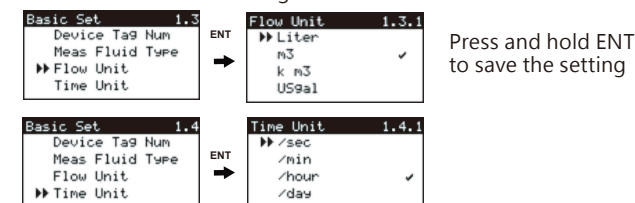


05 Quick setup process

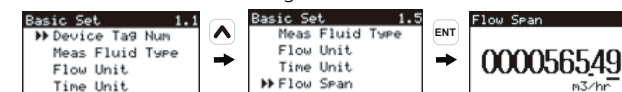
Liquid Type Settings:



Flow Rate Time Unit Settings:



Full-Scale Flow Rate Settings:

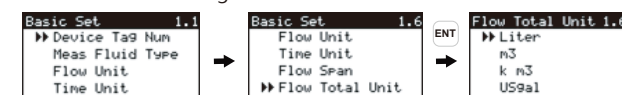


Press and hold ENT to save the setting.

Press < to select.

Press < to change variables.

Totalizer Unit Settings:



Press and hold ENT to save the setting