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EPF Doppler Ultrasonic 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 Circuit installation

Wiring cautions

- ▶ The 2-core insulating rubber sheath cable shall be used as the power cord, and the outer diameter of the wire shall be ranged between 5~7mm.
- ▶ When operating under normal 24VDC power supply status, the resistance of the cable shall not be higher than 10Ω.
- ▶ The total impedance of the cable drawn from the current output terminal shall not be higher than the specified nominal value.
- ▶ Normally, the NPN crystal output is used as the pulse wave or the frequency output.
- ▶ Therefore, it should be connected with the external power.

Cautions

- ▶ Before starting the installation, the pipe area provided for installing the ultrasonic transducer must be thoroughly cleaned until the original metallic luster is exposed.
- ▶ The transducer and the pipe engaging section must be thoroughly cleaned and shall be fully coated with the ultrasonic-dedicated coupling agent in the meantime.
- ▶ Its purpose is to ensure that air or sand layer will not remain on the transducer and pipe contracting interface to affect the ultrasonic signal transmission effect.

-Quick Start Guide-

Inspection before power supply

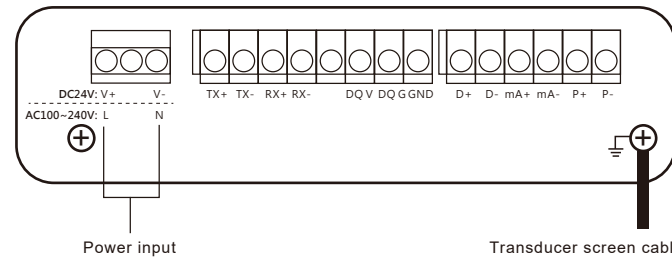
- ▶ If damage occurs to the transmitter and the transducer in the flow meter during the installation process.
- ▶ If the voltage of the operating power meets the indicated specifications.
- ▶ The installation distance of the transducer shall depend on the distance required for the transmitter.
- ▶ Ensure that the pipe is fully filled with the liquid. In the meantime, it is also required to remove the gas remaining in the pipe.

03 Wiring

Input voltage: DC24V

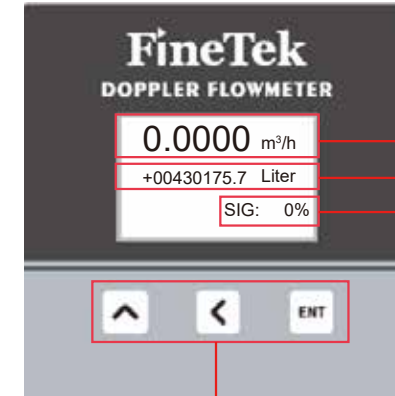
Input current: 200mA±20%

Before each use, please follow the safety hint provided below: The wiring shall be allowed for the transducer under the power outage status.



Wiring function	Description	Insulation layer color of the core
V+	24V	
V-	0V	
L	AC input power	
N	AC input power	
TX+	Transducer transmitting end	White
TX-		Black
RX+	Transducer receiving end	White
RX-		Black
DQ_V	Temperature transducer	Red wire
DQ		Yellow wire
DQ_G		Black wire
GND	Electromagnetic screening	Black
D+	RS485 wiring	
D-		
MA+	4-20mA output wire	
MA-		
P+	Pulse output wire	
P-		

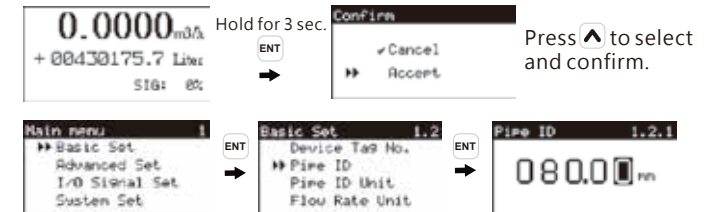
04 Description of panel functions



- ① Instantaneous flow
- ② Total flow
- ③ Signal intensity
- ④ Operating key

05 Quick setup process

Set pipe ID:



Press **ENT** to enter Basic Settings. Press **←** to return to the previous screen. Press **←** to select. Press **↑** to change the value. Press **↑ENT** simultaneously to return to the previous page.

Set Flow Rate Unit:

Select the desired flow rate unit.



Set Totalizer Unit:

Select the desired totalizer unit.

