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EPR Paddlewheel 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

Power supply: 12~36Vdc, ±10%

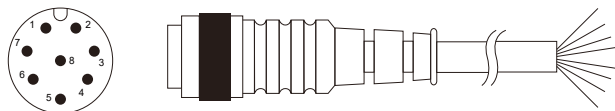
Power consumption :1.5VA

Ensure that power to the paddlewheel flowmeter is disconnected so wiring is performed only in power-off status.

Connector socket

Plug

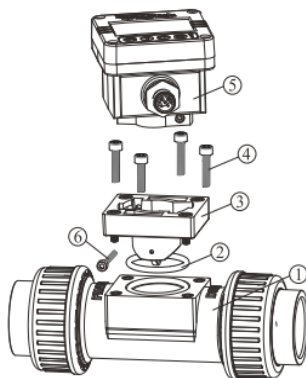
Cable



M12 Socket Pin No.	Function	Cable Color
1	Communication output RS485 -	Black
2	Pulse output Pulse -	Yellow
3	Power supply input DC 0V -	Blue
4	Pulse output Pulse +	Orange
5	Communication output RS485 +	Green
6	Analog output 4~20mA -	Purple
7	Analog output 4~20mA +	Red
8	Power supply input DC12~36V +	Brown

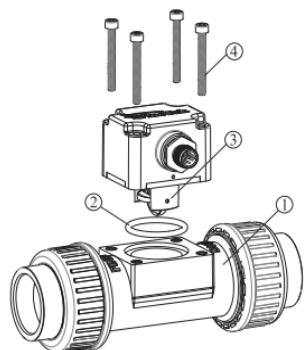
-Quick Start Guide-

03 Installation



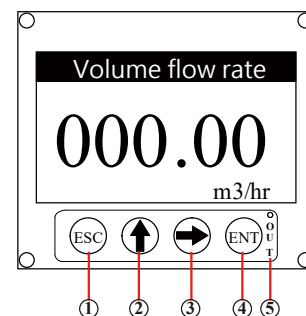
1. T-fitting of flow meter.
2. Place the O-shaped ring in the sealing tank, and unfold it naturally.
3. Make the blade holder face downward and go through the hole and O-shaped ring. Level and align it.
4. Fasten and align the 4 screws evenly.
*Fastening torque : Plastic Blade = 8~10kgf-cm(0.784~0.98N.m) Stainless Blade = 0~12kgf-cm(0.98~1.176N.m)
5. Point the M12 connector of the display towards you, and insert it into the slot. Level it horizontally and rotate it clockwise to the edge for alignment.
6. Fasten the 2 fixing screws. *Fastening torque = 6~8kgf-cm(0.588~0.748N.m)

※ Note: The above steps are for whole machine installation. To install the header only, please perform steps 5~6. Please apply the fastening torque on the screws as required.



1. T-fitting of flow meter.
 2. Place the O-shaped ring in the sealing tank, and unfold it naturally.
 3. Make the blade of the transmitter face downward and go through the hole and O-shaped ring. Level and align it.
 4. Fasten and align the 4 screws evenly.
* Fastening torque :
Plastic Blade = 8~10kgf-cm(0.784~0.98N.m)
Stainless Blade = 10~12kgf-cm(0.98~1.176N.m)
- ※ Note: Please apply the fastening torque on the screws as required.

04 Display Interface



- ① Return to the previous menu
- ② Move up the cursor/ Set parameter values
- ③ Move up the cursor/ Select the numbers for the parameter value
- ④ Enter the selected item/ Confirm the operation
- ⑤ Red light ON indicates alarm

(ESC) + (ENT) Enter the Main Menu

05 Quick setup process

Measurement Settings:

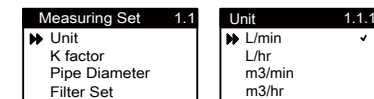
Configure measurement parameters, such as units, flow coefficient (K-factor), pipe diameter, and filter settings. To enter the Main Menu from the Measurement Screen, press ENT and ESC simultaneously.



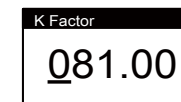
Unit Settings:

Set the display unit for measurement values.

In the Measurement Settings menu, select Unit Settings and press ENT to enter.

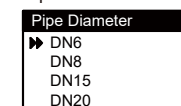


Flow Coefficient (K-factor) Settings



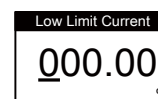
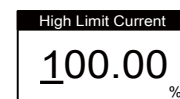
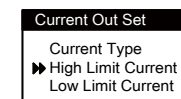
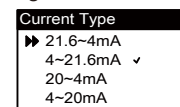
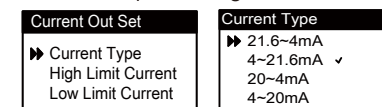
Press ◀ or ▶ to adjust the parameter value. Press ENT to confirm.

Pipe Diameter Settings



Press ◀ or ▶ to switch between options. Press ENT to confirm.

Current Output Settings



In the Current Output Settings menu, press ENT to select the upper or lower current limit. Press ◀ or ▶ to adjust the parameter value. When the setting is complete, press ENT to save the setting.

Product Information

Select Product Information in the Main Menu, and press ENT button to view the product number and firmware version.

