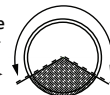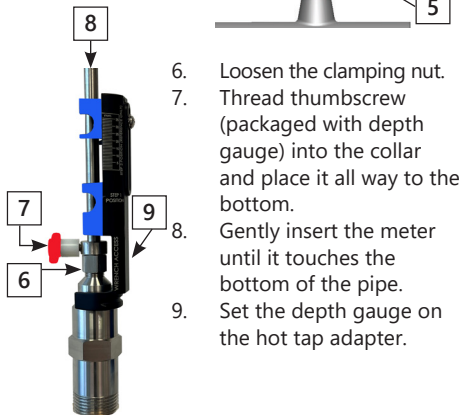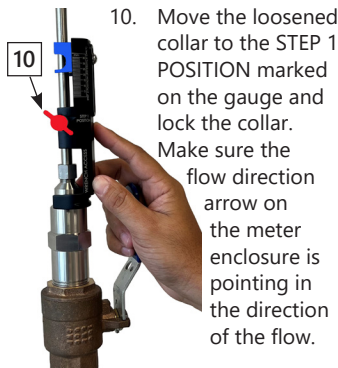- Install in vertical or horizontal pipe
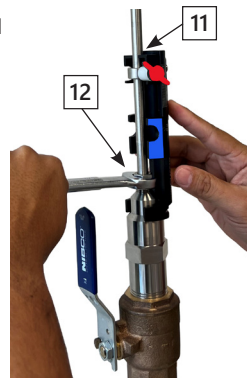- For horizontal pipe position meter anywhere in upper 240°

1. Keep the sensor fully withdrawn during installation.
2. Apply paste or Teflon tape as necessary.
3. Thread the hot tap adapter onto the to ball valve and tighten it as necessary. DO NOT OVERTIGHTEN.
4. Maintain a firm grip on the enclosure to counteract the effects of the pressure in the pipe.
5. Slowly open the valve to the fully open position.

6. Loosen the clamping nut.
7. Thread thumbscrew (packaged with depth gauge) into the collar and place it all way to the bottom.
8. Gently insert the meter until it touches the bottom of the pipe.
9. Set the depth gauge on the hot tap adapter.

10. Move the loosened collar to the STEP 1 POSITION marked on the gauge and lock the collar. Make sure the flow direction arrow on the meter enclosure is pointing in the direction of the flow.

11. With the collar still locked, rotate the stem and move up to the STEP 2 POSITION.
12. Tighten the clamping nut to set the depth and make sure the flow direction arrow on the meter enclosure is pointing in the direction of the flow.

NOTE: Gauge length is based on the flow meter model and pipe size. To install the flow meter in a different pipe size than factory configured for, refer to the meter manual in the QR code.

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Flow and Energy Measurement

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	Wire Color	Description	Notes
POWER / GROUND	Red	(+) 24V Supply voltage	20 - 28 VAC, 60 Hz, 10 VA OR 20 - 28 VDC, 400 mA at 24 VDC
	Black	(-) Isolated supply voltage common	
	Green / Yellow	Earth ground connection	Required for meter operation
FREQUENCY OUT	Green	(+) Isolated frequency output	Required when connecting to ONICON display or BTU meter
	Yellow	(-) Frequency output common	
ANALOG OUT	Blue	(+) Isolated 4-20mA analog output	2mA = Master Alarm
	White	(+) Isolated Voltage Analog Out 0-10V, 0-5V, 2-10V, or 1-5V	Master Alarm (Configurable via PC App) 0V=Master Alarm or Zero Flow for 0-10V range 1V = Master Alarm for 2-10V range where 2V = Zero Flow 0.5V = Master Alarm for 1-5V range where 1V = Zero Flow
	Brown	(-) Isolated analog output common	
DRY CONTACT (Scaled Pulse or Alarm)	Orange / Black	Dry Contact 1	Pulse scaled output for totalization. Example: 1 pulse per 10 gal / 1 pulse per 100 gal
	White / Black		
	Gray / Black	Dry Contact 2	Master Alarm Contact
	Violet / Black		
	Gray	Dry Contact 3	Bidirectional Contact (only available on the FT-3400-2)
	Violet		