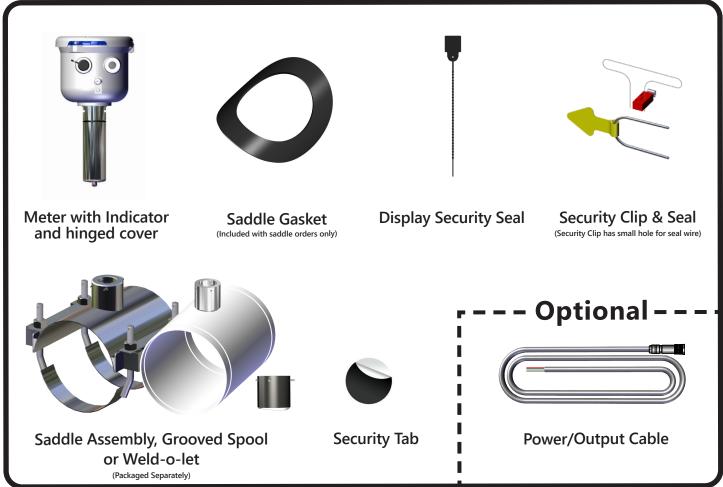


EX90 Meter Installation Quick Start Guide

Check Components



Recommended Tools

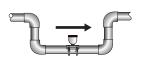
Recommended:

- 3/32" or 2.5mm (small) flat head screw driver
- · Crescent wrench
- 1/4" flat head screw driver

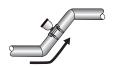
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Positioning

Choose a position that will ensure a full pipe.





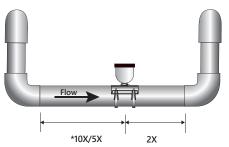






Side (3 o'clock) and top (12 o'clock) installations are acceptable.

Choose a position that will minimize flow distortion.



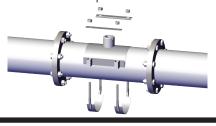
*Upstream straight pipe is selected during initial setup. Upstream options are 5X or 10X the diameter and are based on the amount of straight pipe available in either new or propeller meter replacement installation. Downstream straight pipe requirement is 2X the diameter. See programming setup for details.

BEFORE INSTALLING measure & record inside diameter (ID) of pipe.

1. Clean the mounting surface, remove any roughness from the area that would prevent the gasket from sealing. For new installations, cut a 1.75" hole into pipe. Place gasket centered over pipe opening. Use flat gasket on large holes and molded gasket on 1.75" holes.



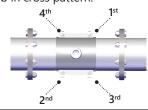
4. Place the saddle clamps under the pipe and align with the clamp guides on the saddle top.



2. Place saddle top over gasket.

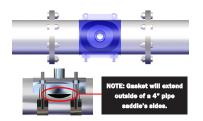


5. Place saddle plates over saddle clamp threads. Attach nuts and tighten as shown below. Torque to 75 ft-lb in cross pattern.



2. Place and weld the weld-o-let.

3. When using the flat gasket, make sure saddle top covers entire gasket.



6. Insert the AG90 sensor into the saddle fitting and secure with mounting clip or attach security clip and seals if required.



1. Clean the mounting surface, remove any roughness from the area and cut a 1.75" hole into pipe.



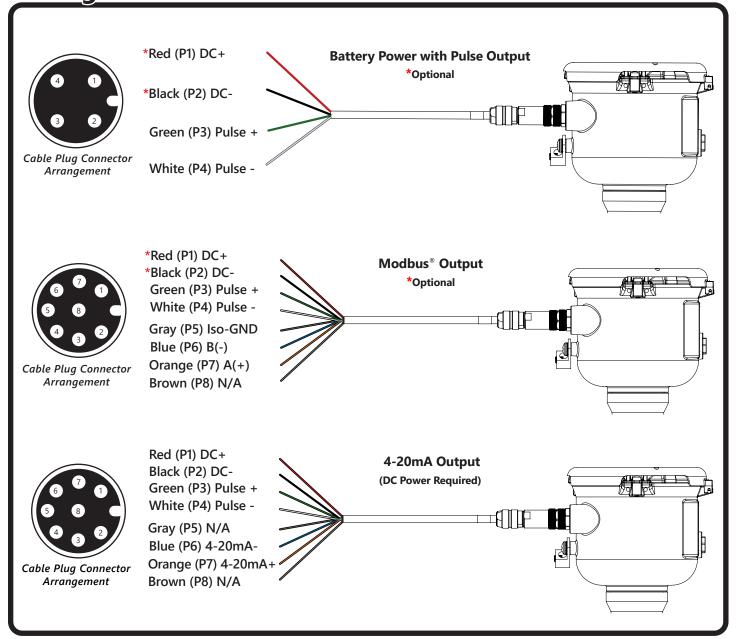
3. Insert the EX90 sensor into the fitting and secure with mounting clip or attach security clip and seals if required.



/eld-o-let



Wiring



Warnings Refer to instruction manual for further details.

- Confirm that U-clip retainer is installed and never remove the U-clip retainer when pipe is under pressure—may result in serious injury.
- Saddle bolts must be tightened evenly. Do not over tighten.
- Install security seals during installation if regulations require.
- · Ensure proper grounding when required.

- Programming pipe ID, pipe insertion hole size and straight pipe configuration is required for the meter to read.
- To prevent tampering or changes to the program, after initial set-up, either enter a security pass-code, or remove the display lid and place a security tab over one of the arrows before installing the housing security seal.



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Menu System









The HOME Screen displays flow volume, direction of the flow total and flow RATE along with status conditions such as Empty Pipe. Two buttons below the LCD display are used to access menu screens for viewing and changing meter setup parameters.

These two buttons are light sensors which can detect when a finger is covering them and activate upon release. Only three button touch actions are needed to control navigation through the menus, settings changes and back to the home screen.



HORIZONTAL SCROLLING:

Tap right-hand button to scroll horizontally through menu tabs or move horizontally within a tab dialog when applicable.



SELECT: Tap left-hand button to change a highlighted item within a tab dialog.



ENTER/EXIT: Hold left button while tapping right button once to enter or exit a tab dialog or to navigate between the HOME and other menu screens.

All menu screens consist of two rows of tabs surrounding a dialog box that lets you view and change setup parameters. To enter the Menu System perform the hold and tap sequence.



Changing Settings

HOME SCREEN

The Home Screen page on a new meter will indicate for you to SET ID. to move to the Passcode Screen.

PASSCODE

Set passcode if required, or to move to the Standard Menu Options Screen.



T UNIT

View or change TOTAL volume units

R UNIT

View or change flow RATE units

SET P

View or change pulse output scaling

DAMP

View or change # of sample periods for rolling average* DAMP default set to 30

EXIT

Return to HOME SCREEN or Tap 🛕 five times, to enter a SUBMENU screen from which you can access the required pipe setting functions

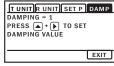


ENTER PASSCODE $000 \ 000$











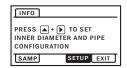
Enter Pipe Settings (Required)



INITIAL SETUP OF ID, HOLE, AND PIPE IS REQUIRED FOR THE METER TO OPERATE PROPERLY.

1. SETUP

View or change meter configuration settings.



04.500IN.

PRESS AND TO CHANGE

PRESS 🛋 AND 🕨 TO CHANGE

SETUP EXIT

SETUP EXIT

SAMP

INFO

SAMP

2. SETUP (Menu Functionality)

The highlighted value can be changed using the arrows. The value on the left is the menu name. Cycle through these by pressing . Press to highlight and change the value of the menus.

3. ID (Required)

View or change inner diameter of the pipe. Measurement in inches.

4.HOLE (Required)

View or change installation pipe hole size. Tap 1 then 1 to change setting from N/A (default) to small and large sizes. Note: See instruction manual page 14 for hole size description.

5. PIPE (Required)

View or change pipe configuration based on installation. Tap then to change setting from N/A (default) to 10/2, 5/2 or STRAIGHT (conditions with 15 diameters or more)

INFO	
PIPE	10/2 ELB
PRESS 🔼	AND TO CHANGE
SAMP	SETUP EXIT

INFO: Meter model, serial number, firmware version

> Sample rate default is set to 15 seconds. Battery life with a 15-second sampling rate is five years. (May vary depending on environmental factors. See instruction manual for more details.)

SAMP: