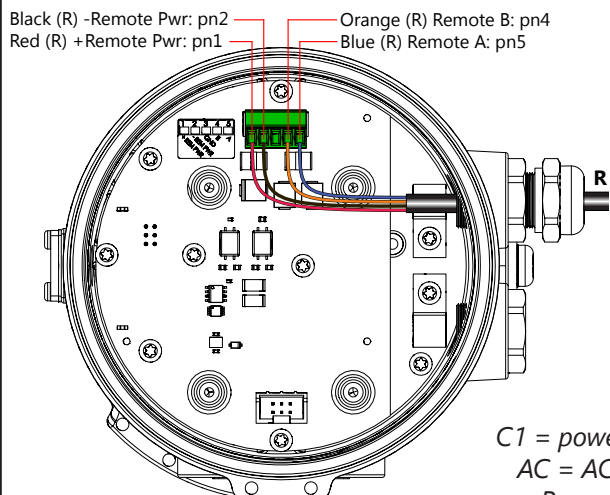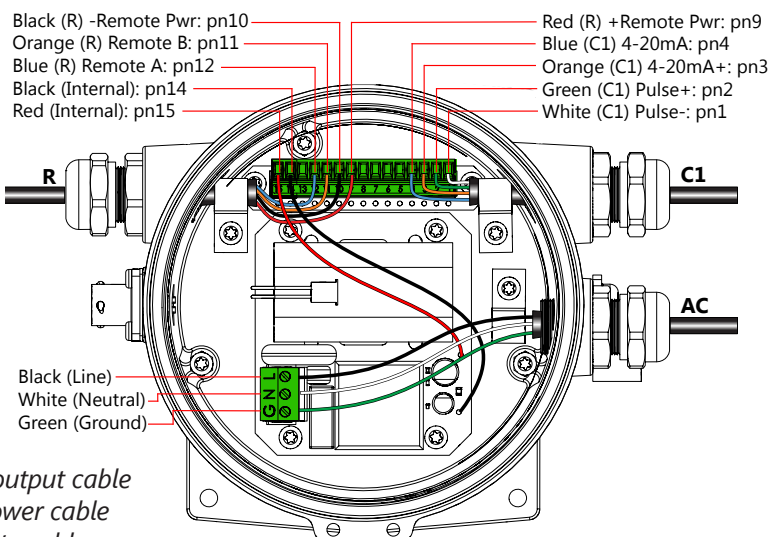# Wiring

Remote Meter: Unscrew the user access lid and remove it. Remove the 5 pin screw connector from its socket. Install the wires through the cable port into the 5 pin screw connector in their respective locations. Plug the 5 pin screw connector into its socket. Refer to the complete manual for further details.
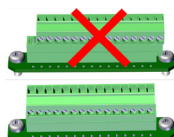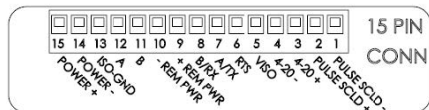
User access lid   *Front panel—do not open*

Remote Display: Remove the 3 screws holding the display assembly and remove it from the meter.   Remove the 15 pin screw connector from its bag. Install the wires through the cable ports into the 15 pin screw connector in their respective locations. Plug the 15 pin screw connector into its socket. **Be sure all pins align properly and that the connector has not slipped to one side.** Refer to the complete manual for further details.
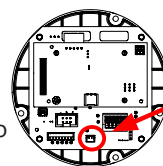
Black (R) -Remote Pwr: pn2
Red (R) +Remote Pwr: pn1
Orange (R) Remote B: pn4
Blue (R) Remote A: pn5

Black (R) -Remote Pwr: pn10
Orange (R) Remote B: pn11
Blue (R) Remote A: pn12
Black (Internal): pn14
Red (Internal): pn15

Red (R) +Remote Pwr: pn9
Blue (C1) 4-20mA: pn4
Orange (C1) 4-20mA+: pn3
Green (C1) Pulse+: pn2
White (C1) Pulse-: pn1

R   **C1**   **AC**

Black (Line)
White (Neutral)
Green (Ground)

C1 = power/output cable
AC = AC power cable
R = remote cable

Remote Meter   **Remote Display**

15 PIN CONN
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
POWER -
POWER +
ISO-GND
A
B
-REM PWR
+REM PWR
A/TX
B/RX
RTS
VISO
4-20 -
4-20 +
PULSE-SCLD -
PULSE-SCLD +

Be sure all pins align properly and that the connector has not slipped to one side.

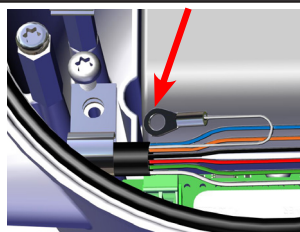Plug the backup battery cable into the back of the display assembly.

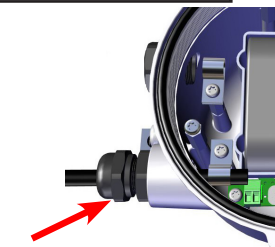⚠ **WARNING: BACKUP BATTERIES ARE NOT INTENDED AS A PRIMARY POWER SOURCE**

⚠ **WARNING:** Improper sealing of glands or cables will invalidate any warranty. If plugs or cable glands are removed, reinstall using Teflon pipe sealant, or tape, to ensure maximum moisture protection.

Remove plug & o-ring. Insert cable gland/strain relief. Feed cable through cable gland.

Clamp cable with strain relief clips. Attach drain wire lug to bracket post.

CRITICAL!
Torque cable gland sealing nut to 22 in-lbs.

Refer to the **Mechanical Quick Start Guide** or the complete instruction manual for details on mechanical installation.

Menu System

1.2345678 TOTAL CU FT X1000

100 RATE GPM

FORWARD TOTAL

▲ ▶

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. 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.

TAP

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

TAP

▲ ▶ **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.

HOLD TAP

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.

▲ + ▶

HOLD TAP

Changing Settings

T UNIT
View or change TOTAL volume units

T UNIT	R UNIT	SET P	DAMP

TOTAL = GALLONS
PRESS ▲ + ▶ TO SET TOTAL
UNITS FOR DISPLAY

SET 4	SET 20	SET F	EXIT

R UNIT
View or change flow RATE units

T UNIT	R UNIT	SET P	DAMP

FLOW RATE = GALLONS/MIN
PRESS ▲ + ▶ TO SET RATE
UNITS FOR DISPLAY

SET 4	SET 20	SET F	EXIT

Set P
View or change pulse output scaling

T UNIT	R UNIT	SET P	DAMP

00001.0 GALLONS
PRESS ▲ + ▶ TO SET
GALLONS TOTALIZED PER
PULSE SENT OUT PULSE1

SET 4	SET 20	SET F	EXIT

DAMP
View or change # of samples for rolling average.

T UNIT	R UNIT	SET P	DAMP

DAMPING = 1
PRESS ▲ + ▶ TO SET
DAMPING VALUE

SET 4	SET 20	SET F	EXIT

SET 4
View or change flow rate corresponding to 4mA

T UNIT	R UNIT	SET P	DAMP

00040.0 GALLONS/MIN
PRESS ▲ + ▶ TO SET FLOW
RATE AT WHICH 4mA
(MIN) OUTPUT IS DESIRED

SET 4	SET 20	SET F	EXIT

SET 20
View or change flow rate corresponding to 20mA

T UNIT	R UNIT	SET P	DAMP

00200.0 GALLONS/MIN
PRESS ▲ + ▶ TO SET FLOW
RATE AT WHICH 20mA
(MAX) OUTPUT IS DESIRED

SET 4	SET 20	SET F	EXIT

EXIT
Return to HOME SCREEN or enter SUBMENU

T UNIT	R UNIT	SET P	DAMP

PRESS ▲ + ▶ EXIT MENU
AND RETURN TO FLOW
DISPLAY

SET 4	SET 20	SET F	EXIT

The EXIT tab in the MAIN MENU has a second function. If you tap ▲ five times, you will be redirected to a SUBMENU screen from which you can access additional options.

INFO: *Meter model, serial number, firmware version*