

TECH NOTES

SYSTEM-40 AND F-4600 LCD METERS



FIELD INSTALLATION OF ELECTRONICS BONDING WIRE

OVERVIEW

The procedure below provides the installation steps to bond the System-40/F-4600 electronics and the meter body. This bonding strengthens the meter's ground point and can be used to reduce current induced noise caused from high frequency electrical activity.



System-40 BTU (Energy) Measurement System

RECOMMENDED TOOLS

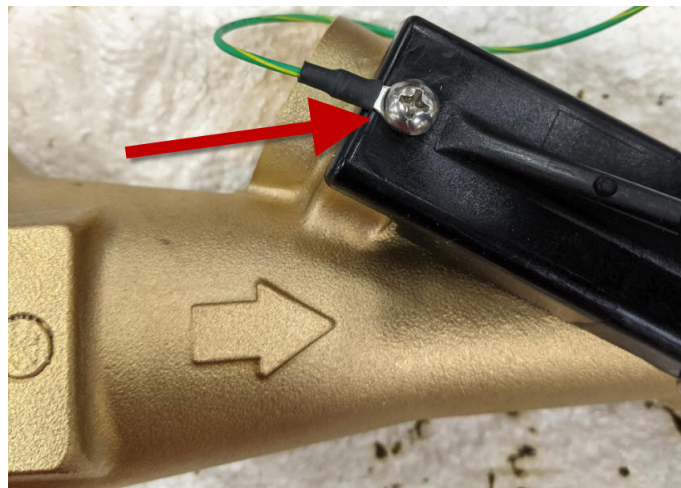
- Ring lug
- 5' wire (20 AWG or larger)
- Philips head screwdriver
- Pliers

METER DIAGRAM



PROCEDURE

1. Land the ring lug under the meter's retaining screw, shown below, and re-tighten.



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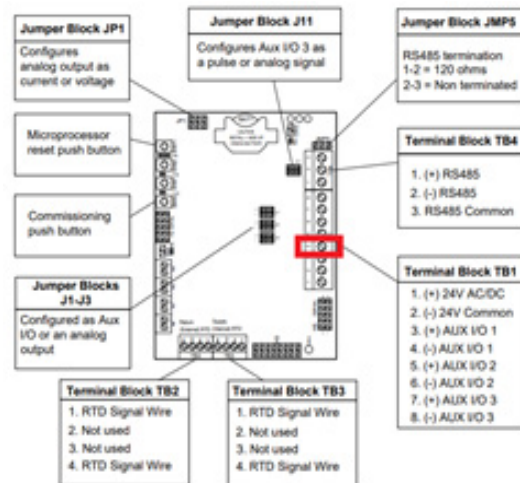
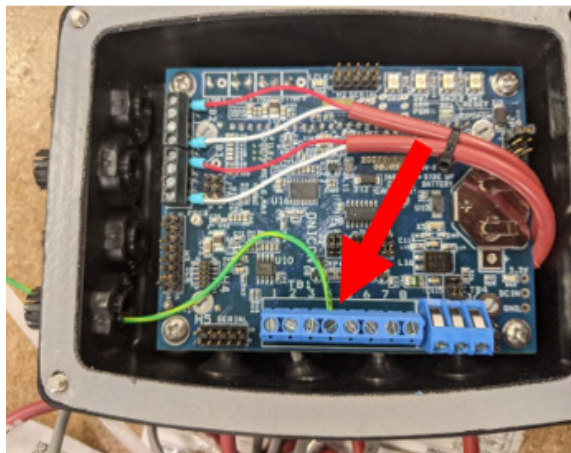
FIELD INSTALLATION OF ELECTRONICS BONDING WIRE

PROCEDURE (CONTINUED)

2. Enter the transmitter through the unused cable gland, indicated below.



3. Land the grounding wire on TB1, Terminal 4 (TB1-4).



4. Coil the factory cables and ground wire into a flattened figure 8 pattern to aid in noise reduction.



WARNING

A short can exist if multiple System-40 BTU (Energy) Measurement Systems or F-4600 LCD Inline Ultrasonic Flow Meters are powered by one transformer. This could permanently damage the meters. To avoid this, all the same legs of the transformer must be connected to all the positive (+) inputs of the meters, and the other leg must be connected to all the negative (-) inputs. If one leg of the transformer is earth grounded, that should be connected to the negative (-) input.

If you should have any technical questions about your ONICON product installation, please contact ONICON Technical Support at (727) 447-6140 or techsupport@onicon.com.