AquaMaster4
Electromagnetic flow transmitter

Connecting AquaMaster4 transmitter to a renewable energy source.

Measurement made easy

Introduction
This publication details procedures for connecting an AquaMaster transmitter to a renewable energy supply source such as a solar panel or wind turbine.

**WARNING**
- These procedures must be carried out by suitably trained personnel and in accordance with the information given.
- Before proceeding, ensure the renewable power source is compatible with the product specifications in the transmitter’s operating instructions or data sheet.

The contents of the installation kit are shown in Table 1.

<table>
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<th>Description</th>
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<td>Terminal box with fitted MIL-style connector and potting compound</td>
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<td>Instruction - Connecting AquaMaster transmitter to a renewable energy source - IN/FLOW/001-EN</td>
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Table 1  Installation kit (part no. 3KXF0044071000)
1 Electrical Safety

**WARNING**

- Isolate the transmitter from all high voltage supplies before performing this replacement procedure.
- Ensure all electrical connections are kept dry at all times.

2 Connecting the terminal box

Referring to Figure 1:

1. Strip 60 mm (2.4 in.) of insulation from cable A and prepare wire ends B by exposing 5 mm (0.2 in.) of conductor.
2. Thread the cable through gland C and secure wire ends into terminals D with corresponding colors.
3. Tighten cable gland C.
4. Power up and check all connections before potting.

![Figure 1 Preparing cable and connecting terminal box](Figure 1 Preparing cable and connecting terminal box)
3 Potting the terminal box

WARNING

- Potting materials are toxic. Read the manufacturers’ instructions carefully before preparing the potting material and use suitable safety precautions.
- The terminal box connections must be potted immediately on completion to prevent the ingress of moisture.
- Do not overfill or allow the potting material to come into contact with O-rings or grooves.
- Do not allow potting material to enter conduit (if used).

1. Referring to Figure 2, fill the terminal box with potting compound A, following the potting instructions.
2. Refit the terminal box lid.
3. Allow sufficient curing time as specified in the potting instructions.
4. Connect the sensor cable to the AquaMaster4 transmitter.

Figure 2 Potting the terminal box