AquaMaster Adapter Kit for CalMaster 2

1 Introduction

With the CalMaster 2 verification device, a user must be able to break into the connections between the sensor/transmitter and also between the output terminals/any external equipment.

This Information Sheet shows the conversion of a metal-housed AquaMaster transmitter to fit plug and sockets for simple and easy connection to a CalMaster 2 device.

2 Procedures

2.1 AquaMaster with Hard-wired Sensor Leads

To enable a hard-wired AquaMaster system to be tested by the CalMaster2 it may be necessary to fit a socket to the AquaMaster (see Section 2.3, page 2) and a small adaptor box to the end of the sensor cable (see Section 2.6, page 3).

Note. Hard-wired AquaMasters that have been potted need to have the potting dug out carefully. Re-pot the Aquamaster after the new sockets have been fitted.

2.2 Removing the AquaMaster Cover

To remove the AquaMaster cover:

1. Slacken the captive screws A.
2. Lift the cover off B.
3. Press the battery tray retaining tabs and remove the battery tray C.

Fig. 2.1 Removing the AquaMaster Cover
2.3 Fitting an AquaMaster Sensor Socket

To fit an AquaMaster sensor socket:

1. Turn off the power to the AquaMaster and remove the covers – see Section 2.2, page 1.
2. Disconnect and withdraw the sensor cable (A).
3. Remove and discard the gland (B).
4. Feed the socket lead into the AquaMaster and fit the socket (MGFA0609-S) (C).
5. Connect the sensor cable (D).
6. Replace the covers – see Fig. 2.1, page 1.

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2.4 Fitting an AquaMaster Pulsed Output Socket

To fit an AquaMaster pulsed output socket:

1. Turn off the power to the AquaMaster and remove the covers – see Section 2.2, page 1.
2. Disconnect and withdraw the pulsed output cable (A).
3. Remove and discard the gland (B).
4. Feed the socket lead into the AquaMaster and fit the socket (MGFA0609-S) (C).
5. Connect the sensor cable (D).
6. Replace the covers – see Fig. 2.1, page 1.
2.5 Fitting an AquaMaster Pulsed Output Socket with Serial Communications

To fit an AquaMaster pulsed output socket with serial communications:

1. Turn off the power to the AquaMaster and remove the covers – see Section 2.2, page 1.
2. Disconnect and withdraw the pulsed output cable A.
3. Remove and discard the gland B.
4. Feed the socket lead into the Aqua Master and fit the socket (MGFA0609-O) C.
5. Connect the sensor cable D.
6. Replace the covers – see Fig. 2.1, page 1.

2.6 Fitting an Adaptor Box to the Sensor Cable – Bulgin Connectors

To fit an adaptor box to the sensor cable:

1. Remove the cover of the adaptor box.
2. Feed the sensor lead into the adaptor box A.
3. Connect the sensor cable B.
4. If required, provide environmental protection – see Section 3, page 5.
5. Tighten the gland and replace the covers.
2.7 Fitting an Adaptor Box to the Sensor Cable – MIL Connectors

To fit an adaptor box to the sensor cable:

1. Remove the cover of the adaptor box.
2. Feed the sensor lead into the adaptor box [A].
3. Connect the sensor cable [B].
4. If required, provide environmental protection – see Section 3, page 5.
5. Tighten the gland and replace the cover.

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**Cable connections**

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Fig. 2.6 Fitting an Adaptor Box to the Sensor Cable – MIL Connectors
3 Environmental Protection – Potting the Junction Box

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