Field and Software Tools

CalMaster2
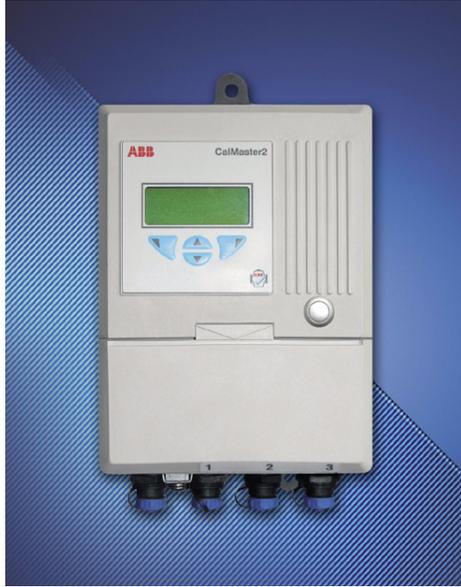
Quick Start Guide

IM/VCM2/QRG   Issue 2

1 Introduction

CalMaster IRIS and CheckMaster are stand-alone verification and validation tools within the CalMaster2 Verification Suite.

There are two options of CalMaster2 available:

- **CalMaster IRIS**

    Enables the printing of service reports and certification to within 1% of factory calibration (fingerprinted flow meters) or 2% (non-fingerprinted flow meters). Predictive diagnostics are also provided to provide early warning of a possible system failure, enabling maintenance engineers to anticipate problems and take planned remedial action in advance.

    CalMaster2 comprises:

    – CalMaster IRIS Verification Tool

    – Enhanced IRIS Software

- **CheckMaster**

    Enables the validation of flow meters and the printing of a service report.

    CheckMaster comprises:

    – CheckMaster Validation Tool

    – IRIS Software

2 Unpacking

Unpack and visually inspect the CheckMaster.

Also packed with the CheckMaster are:

- CalMaster2 IRIS software CD.
- Instruction manual.
- Mains-operated battery charger & in-car adaptor
- 5 MagMaster adaptors kits (Part no. WADX0089):

Sensor Cable Plug — MagMaster VKE Adaptor
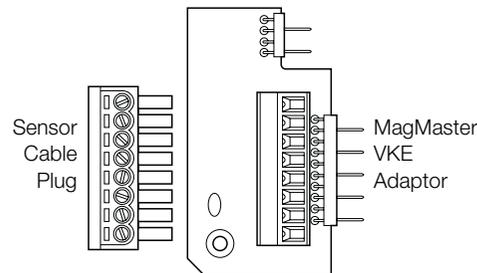
- CheckMaster Leads:

    AquaMaster Communications Leads
    (Red and yellow numeric sleeves)
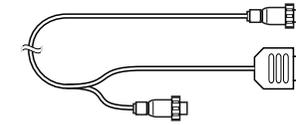
| Connection Lead 1 WEBC0221 | WEBC2000 for RS232 Serial Communications WEBC2000 |
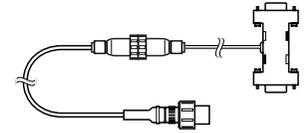
AquaMaster Explorer Leads
(Red numeric sleeves)
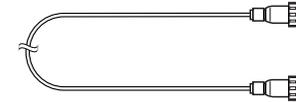
AquaMaster Transmitter Connection Lead 2 WEBC0222
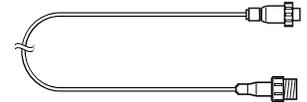
AquaMaster Transmitter Connection Lead 3 WEBC0223

MagMaster Leads
(Yellow numeric sleeves)

AquaMaster MIL Sensor Cable WEBC0233

AquaMaster 19-way Output Cable WEBC235

AquaMaster 7-way Output Cable WEBC0234

AquaMaster 7-way Output Cable WEBC0232

AquaMaster MIL Connector Leads
(Green numeric sleeves)
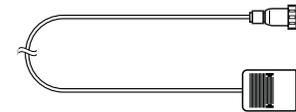
MagMaster Connection Lead 2 WEBC0212
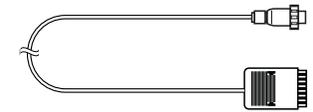
MagMaster Connection Lead 3 WEB0C213
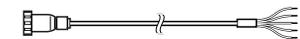
AquaMaster Transmitter Connection Lead 2 WEBC211

3 Charge the CheckMaster

Charge the CheckMaster for a minimum of four hours before first use.
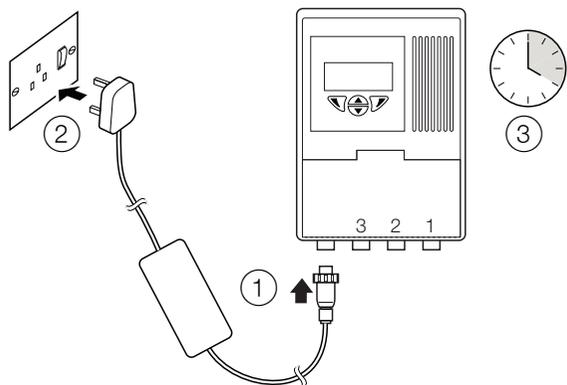
1. Connect the mains adaptor to the CalMaster2.
2. Plug the CalMaster2 mains adaptor into the power socket.
3. Recharge for at least four hours.

4 Install the CalMaster2 IRIS software

Insert the CD into the computer; the install program should start automatically. If it does not, from the Windows **Start** menu, select **Run…** and type **D:\Setup.exe** (where D is the drive letter of the CD) and click **OK** or press **Enter**.

Follow the on-screen instructions to install.

To run the software, select **Start | Programs | ABB | CalMaster2**.

Refer to the instruction manual (IM/VMC2) for complete details of the CalMaster2 IRIS software.

5 Register CalMaster2

From the CalMaster software, select **Help | Register CalMaster2…** A registration screen appears:

> **Note.** The 'Customer identification number' is printed on the label of the CD.

1. Type the **User name**, **Company name** and **Customer identification number**.
2. Select to either create a PDF of the registration or send the details by email:
   - To create a pdf, select the **Create a pdf file for printing or faxing** check box.
   - To send an email, leave the **Create a pdf file for printing or faxing** check box unselected.
3. Click **Next**. Either an e-mail is sent to calmaster@gb.abb.com automatically or a PDF is created:
   - If an e-mail was sent, a response is received within 24 hours. A confirmation message that the e-mail has been sent appears.
   - If a PDF was created, print the PDF and either send it to:

     ABB Limited
     CalMaster Helpline
     Oldends Lane, Stonehouse
     Gloucestershire
     GL10 3TA
     UK

     or Fax it to: +44 (0)1453 829671
4. Click **Close** to exit CalMaster2.

6 Connect the CheckMaster to the Computer

With the CalMaster2 software running:
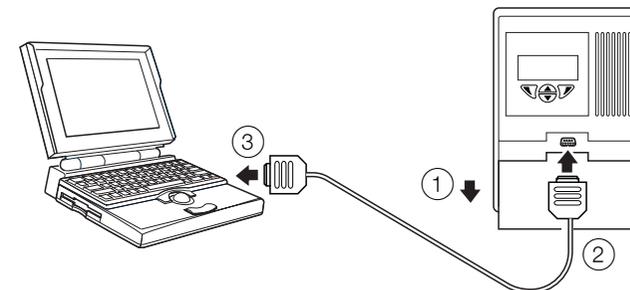
1. Slide the cover down to reveal the serial port.
2. Connect the RS232 cable to the CalMaster2
3. Connect the RS232 cable tothe computer.

From the CalMaster2 IRIS software, click the [X] button. The software checks that the CalMaster2 is connected.

> **Note.** As this is the first time that the CheckMaster has been used, no flow meters are listed.

7 Verify a Flow Meter

Follow the detailed instructions in the manual (IM/VCM2) to connect to a flow meter.