AquaMaster S Water Meters

**Integral Logger**

**IM/AMS/QRG Issue 5 08.04**

---

**DISPLAY**

When the unit is taken out of storage and installed for first use, remove the protective label, if fitted, from the front, to allow light to activate the unit.

If the instrument is not powered, connect any batteries front, to allow light to activate the unit.

*Important.* Read the manual for battery condition monitoring.

**PROGRAMMING**

**Setting up the PC – HyperTerminal Setup**

From the PC Start menu choose Programs – Accessories – Hyperterminal – HyperTerminal.

At 'New connection' enter: AquaMaster.

At 'Connect using' choose: COM1 or COM2 depending on the pc connection.

At 'Port setting' prompt choose Bits per second: 4800, Parity: None, Stop bits: 1, Flow control: None.

At 'New connection' enter: AquaMaster

At 'Connect using' choose: COM1 or COM2 depending on the pc connection.

**Changing Selections**

Note. Ensure that the correct access level is selected.

It is possible to enter data directly into the AquaMaster without navigating the menu system. This is achieved by using the "Command Line Interface" (CLI). To read the value of a variable, type a right chevron then the variable number (see overleaf), then press Enter.

To write a new value to a variable, type a right chevron the variable number, an equal sign and the new value required, followed by Enter. In both cases the AquaMaster will reply with the new value of the variable (or a reason for failure) e.g.:

**PARAMETER CHANGES**

<table>
<thead>
<tr>
<th>Tab</th>
<th>Flow Units?</th>
<th>( \text{space} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \text{space} )</td>
<td>Flow Units?</td>
<td>l/m</td>
</tr>
<tr>
<td>( \text{space} )</td>
<td>Flow Units?</td>
<td>l/m</td>
</tr>
</tbody>
</table>

To cancel the password security, press Esc until the front screen is reached.

---

**SECURITY ACCESS**

There are two levels of password control:

1. **Level Default Password Menus**

   - **Login (Password)?** : Log In Level 0
   - **Login (Password)?** : Log In Level 1
   - **Login (Password)?** : Log In Level 2
   - **Login (Password)?** : Log In Level 3

   **Note.** Passwords are case sensitive

2. **Level Logged In**

   - **Login (Password)?** : Log In Level 0
   - **Login (Password)?** : Log In Level 1
   - **Login (Password)?** : Log In Level 2
   - **Login (Password)?** : Log In Level 3

   **Note.** Passwords are case sensitive

---

**FUNCTIONALITY**

Press \( \text{Esc} \) twice to activate the programming mode.

---

**PARAMETERS**

**Flow Units**

- **l/s**
- **m³/min**
- **gpm**
- **ft³/h**
- **gal/min**

**Flow Rate Settings**

- **Flow Rate FSD**
- **Flow Rate Scale**

**Pressure Settings**

- **Pressure Units**
- **Pressure FSD**
- **Pressure Scale**

**Flow Velocity Settings**

- **Flow Velocity Units**
- **Flow Velocity FSD**
- **Flow Velocity Scale**

**Time Settings**

- **Time Units**
- **Time FSD**
- **Time Scale**

---

**ABB Limited**

Oldends Lane, Stonehouse, Gloucestershire, GL10 3TA, UK

Tel: +44 (0)1453 826661, Fax: +44 (0)1453 829671
**LEVEL 4**

- **5.0 Flow Settings Notes**
  - **Units**
  - **Totaliser Units**
  - **Special O/P Units**
  - **Notes**

  ```plaintext
<table>
<thead>
<tr>
<th>Units</th>
<th>Special</th>
<th>Totaliser</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>l/s</td>
<td>Gal/h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>l/m</td>
<td>MGD</td>
<td>m³/3</td>
<td></td>
</tr>
<tr>
<td>ft/s</td>
<td>Gal</td>
<td>m³/3</td>
<td></td>
</tr>
<tr>
<td>ft³/s</td>
<td>Ugal</td>
<td>m³/3</td>
<td></td>
</tr>
<tr>
<td>ft³/h</td>
<td>Ugal/h</td>
<td>m³/3</td>
<td></td>
</tr>
<tr>
<td>Gal/s</td>
<td>MUGD</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Off</td>
<td>On</td>
<td>Pulse Fwd</td>
<td>Pulse Rev</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AL-NO</td>
<td>AL-NO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AL-NC</td>
<td>AL-NC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
  **Notes to 10 Tariff Control:**
  - Tariff Control menu is used for defining Tariff A only.
  - Tariff B is always the opposite of Tariff A.
  - Daily Cycle Start Time defines the start of normal day time.
  - Weekly Cycle Start Day defines the first day of the week (00:00, 01:00).
  - Weekly Cycle End Day defines the last day of the week. (e.g., for a normal weekend (Saturday and Sunday only) set Weekly Cycle Start Day = Saturday and Weekly Cycle End Day = Monday).
  - Yearly Cycle Start Date defines the day and month of the start of summer. Yearly Cycle End Date defines the day and month of the start of winter.

**2.0 Measurements Notes**

- **Test Mode**
  - Only affects Fwd, Rev, Net Totisers and Pulse Output.

- **Notes**
  - This parameter is ignored if the sensor is not an insertion probe (AquaProbe).