Figure 1 below shows the NanoWater Transmitter and Reed switch which needs to be installed at the external water meter.

**Step 1:**
Remove external water meter cover to access the water meter.

**Step 2:**
Remove the rubber seal to expose the Reed switch access point.

**Step 3:**
Insert the Reed switch into the Reed switch access point on the water meter as shown in figure 2.

**Step 4:**
Tighten the Reed switch into position with the supplied screw.

**Step 5:**
To complete the installation, fit the NanoWater Transmitter unit to the existing water meter using cable ties (not supplied). Ensure that the fitment is as high as possible, as to prevent possible exposure to ground water, and close the water meter unit.

On the controller, check that the unit is receiving a good signal strength – test the unit’s operation by selecting the water channel and opening a tap – you should see the controller incrementing in either R / c or kℓ / ℓ dependent on the selected unit of measure.

**Warranty**
All products sold are subject to the CBI (Pty) Ltd General Terms and Conditions of sale. CBI (Pty) Ltd warrants that the product will be free from defects in materials and workmanship for a period of 12 months from the production date. If the product proves defective during this warranty period, CBI (Pty) Ltd, at its option, will either repair the defective product, or will provide a replacement in exchange for the defective product. Batteries are excluded from this warranty. The Customer must notify CBI (Pty) Ltd of the defect before the expiration of the warranty period to obtain service under this warranty.

**Standard electronic products warranty:** 12 months

Please review the CBI General Terms and Conditions of sale on www.cbi-lowvoltage.com.

Thank you for your purchase!
**NANOWATER**

**Equipment Required for Installation**

<table>
<thead>
<tr>
<th>Equipment Required</th>
<th>NanoWater (Base/Cover)</th>
<th>NanoWater ( Reed Switch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philips Screwdriver</td>
<td>Yes – Pozi # 2</td>
<td>Yes – Pozi # 1</td>
</tr>
<tr>
<td>Cable Tie (250 mm)</td>
<td>Yes - 2</td>
<td>No</td>
</tr>
</tbody>
</table>

**NANOWATER PROGRAMMING**

**Step 1:** To enter the programming menu, press **OK** and then **Right**, until the controller reads “Scroll to Settings”. Press **OK**, and then press **Left / Right** or **Up / Down** to select “Config Menu Selected”. If this does not appear, repeat this step.

**Step 2:** Press **Right** until the following message is displayed on the controller, “Water Limit Exceeded”. Press **OK**, and the message changes to “Set Warning Limit” and the cursor will flash in the top right hand corner.

The desired total monthly consumption limit can be set by rotating your index finger clockwise / anti-clockwise on the GREY marked touch pad area or by simply pressing repeatedly your index finger on either of the four sectors i.e.: Left, Right, Up and Down. For the purpose of this programming instruction, the press Left, Right, Up and Down function is used, but the scroll function may also be used to achieve the same result.

**Understanding the scroll function**

- **Main**: Press **OK**
- **Rotate Clockwise**: Press **Left / Right**
- **Rotate Anti-clockwise**: Press **Up / Down**
- **Up**: Press **OK**
- **Down**: Press **OK**
- **Left**: Press **OK**
- **Right**: Press **OK**

The scroll pad can be used either by scrolling (rotating) your index finger clockwise / anti-clockwise on the GREY marked touch pad area or by simply pressing your index finger on either of the four sectors i.e.: Left, Right, Up and Down. For the purpose of this programming instruction, the press Left, Right, Up and Down function is used, but the scroll function may also be used to achieve the same result.

**Note:** If you have procured the NanoWater Transmitter unit, please do not insert the 2 x AA batteries until requested to do so in the setup. Do not install the NanoWater at your water meter until setup is complete as detailed below.

**NANOVIEW SETUP**

**Step 1:** To enter the programme settings menu, press **FACE** and **TOP** together and hold, then press **OK**. The controller should now indicate the setup icon and “Config Menu Selected”. If this does not appear, repeat this step.

**Step 2:** Press **Right** until the following message is displayed on the controller, “Water KL Limit”. Press **OK**, and the message changes to “Set Water Limit” and the cursor flashes in the top right hand corner.

The desired total monthly consumption limit can be set by rotating your index finger clockwise / anti-clockwise on the GREY marked touch pad area or by simply pressing repeatedly your index finger on the Up / Down. This step is to be repeated if multiple NanoWater Transmitters are connected.

**Note:** When in daily operation, you may observe the following LED warnings with respective on screen messages pertaining to the set limits:

- **Red LED flashing with message “Near Water Use Limit”** and respective consumption displayed at the top of the controller = you have reached 90% of the set monthly water usage value in kL’s.
- **Red LED permanently on with message “Water Limit Exceeded”** and respective consumption displayed at the top of the controller = you have reached 100% of the set monthly water usage value in kL’s.

**Configuration Menu**

**Step 3:** Select next setup menu by pressing **FACE** and then **Right**, until the controller reads “Set Sensitivity”. Press **OK**, and then press **Right** or **Left** to select “Norm” or “Low”. Once the desired selection is made, press **OK** and the controller will read “Sensitivity Changed”. Note: When in daily operation and a NanoWater is installed, you may observe the following LED warnings and error messages pertaining to the set limits:

- **Set sensitivity = Norm, water leak detection is active with limits set to monitor 1 kL of water used every 60 minutes consecutively between 22h00 and 05h00 the next day.**
- **Set sensitivity = Low, water leak detection is active with limits set to monitor 1 kL of water used every 30 minutes for 12 hours consecutively.**
- **Set sensitivity = OFF, water leak detection is disabled.**

**Config Menu**

**Step 3:** Select next setup menu by pressing **FACE** and then **Right**, until the controller reads “Pair a Water Meter”. Press **OK**, and then press **Left / Right** or **Up / Down** to select “Pair a Water Meter”. The controller must now read the flashing message “Insert WM Battery Now”.

At this stage, open the NanoWater (separate the base and cover) and insert the 2 x AA batteries as indicated. Observe a Green LED flashing for a short time on the NanoWater meter board.

Press **OK** on the controller and observe message “Scanning Signal”, this may take a few seconds.

If pairing was successful, the controller will read “Paired” with a unit serial number, additionally the controller will also now display a signal strength and battery life in the left hand top corner.

**Note:** If you have procured the NanoWater Transmitter unit, please do not insert the 2 x AA batteries until requested to do so in the setup. Do not install the NanoWater at your water meter until setup is complete as detailed below.

**Step 3:** Select next setup menu by pressing **FACE** and then **Right**, until the controller reads “Water Leak Warning”. Press **OK**, and then select “Off”. The “Norm” will flash, by pressing the Left / Right you can select either “Norm”, “Low” or “Off”. Once the desired selection is made, press **OK** and the controller will read “Sensitivity Changed”. Note: When in daily operation and a NanoWater is installed, you may observe the following LED warnings and error messages pertaining to the set limits:

- **Set sensitivity = Norm, water leak detection is active with limits set to monitor 1 kL of water used every 60 minutes consecutively between 22h00 and 05h00 the next day.**
- **Set sensitivity = Low, water leak detection is active with limits set to monitor 1 kL of water used every 30 minutes for 12 hours consecutively.**
- **Set sensitivity = Off, water leak detection is disabled.**

**Programming**

**Step 3:** Select next setup menu by pressing **FACE** and then **Right**, until the controller reads “Pair a Water Meter”. Press **OK**, and the message changes to “Water Tariff”. Press **OK**, and the message changes to “Tariff Rand / Other per kL” and the cursor flashes in the top right hand corner.

The tariff can be changed by rotating your index finger clockwise / anti-clockwise on the GREY marked touch pad area.

After the desired limit has been set or deactivated, press **OK** and the controller will read “KL Limit Updated”. This step is to be repeated if multiple NanoWater Transmitters are connected.

**Note:** When in daily operation, you may observe the following LED warnings with respective on screen messages pertaining to the set limits:

- **Red LED flashing with message “Near Water Use Limit”** and respective consumption displayed at the top of the controller = you have reached 90% of the set monthly water usage value in kL’s.
- **Red LED permanently on with message “Water Limit Exceeded”** and respective consumption displayed at the top of the controller = you have reached 100% of the set monthly water usage value in kL’s.

**Press** **OK** to clear the message.

**Configuration Menu**

**Step 3:** Select next setup menu by pressing **FACE** and then **Right**, until the controller reads “Water Tariff Updated”. Press **OK**, and the controller will read “Water Tariff Updated”.

**Note:** A geographic water rate tariff table will be available on the CBL-low voltage website (http://cbl-lowvolt.co.za/asia) or by scanning the QR code on the NanoHub.