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# Smart Panel Owner's Manual

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## **Waterloo Biofilter Systems Inc.**

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## **Alarms**

Your control panel is equipped with audible and visual alarms. When the alarm goes off you will hear a loud buzzer sound and the light on top of the control panel will turn on.


### **Why is the alarm going off?**

The alarm indicates that the water level in the pump tank or Biofilter is too high.

### **What should you do?**

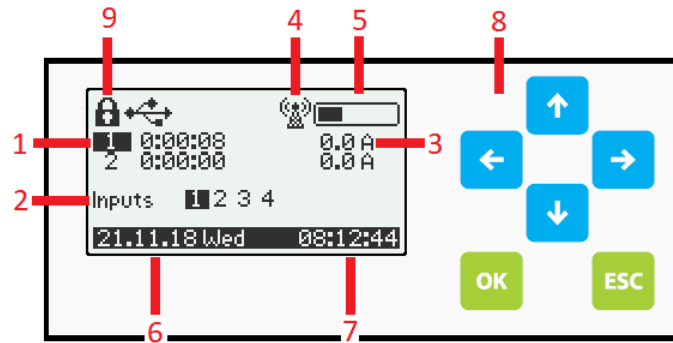
You should call your maintenance provider immediately. Limit water use until the problem has been corrected.

### **How do I silence the alarm?**

Press the **ESC**  key on the panel face to silence to alarm.

Remember that this does NOT mean the problem has been solved, you will still need to contact Waterloo Biofilter or your service provider to rectify the situation.

## Main Display



### 1. Outputs

Displays active and Inactive. In the picture above Outputs 1 is Active (shaded) and Output 2 is inactive. Depending on the number of outputs connected to the panel, the display will change. When an output is active, the timer counts down how long until it is deactivated. When the output is inactive, the timer counts down how long until it is activated.

### 2. Inputs

Displays whether Inputs 1 to 4 are active. Shaded Inputs are active.

### 3. Current Readings

The current draw in amperage of an active output is displayed here. For panels with more than 5 outputs, current sense will be displayed on a separate screen.

### 4. Cellular Connection

Connection to the server is displayed on the screen by a cell tower icon.

### 5. Cellular Signal Strength

The strength of the cell signal is displayed here. Panel automatically determines best carrier to use based on signal strength.

### 6. Date / Time

The date is displayed in DD.MM.YY format.

### 7. Time


The user can select a 12 HR or 24 HR clock in the Date / Time menu.

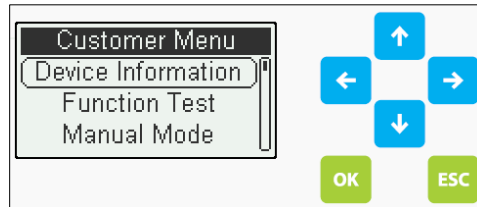
### 8. Interface Buttons

Keys to navigate around the control panel interface

Key	Description
OK	Confirm selection
ESC	Cancel selection / Go back to previous screen
↓	Scroll Down / Decrease number
↑	Scroll Up / Increase number
→	Right / Shift character to Right
←	Left / Shift character to Left

## Customer Menu

The **Customer Menu** gives access to the basic functions of the control panel. This section is accessed by pressing the **Down**  arrow on the main screen.



### Device Information

General information regarding the device. Includes Firmware version, Serial Number, Variant information and production date.

### Function Test

Function Test allows a user to perform a quick run through all the outputs to verify proper operation and amperage readings. The cycle will run through all enabled outputs by sequence, test the alarm and check the backup battery status.

### Manual Mode

Allows operator(s) to temporarily run a specified output for a period of time. The time of this run is predetermined at time of construction.

### Operation Time

Breakdown of the Operation Time for all outputs. Operation time is broken down by calendar weeks.

### Date / Time

Allows user to change date and time settings.

### Display

Allows user to modify Contrast, Brightness and Illumination settings.

### Language

Choose language of operation.

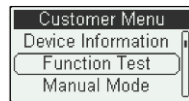
### Restart Panel

Performs a software restart of the panel.

## How to Perform Function Test

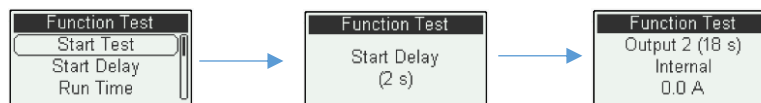
**Function Test** allows a user to perform a quick run through all the outputs to verify proper operation and amperage readings. The cycle will run through all enabled outputs by sequence, test the alarm and check the backup battery status.


Once the user has accessed the **Customer Menu**, scroll **Down**  to Function Test and Press **OK** 



Scroll down  to **Start** Test and press **OK** . A pre-set delay will start counting down and the first Active output will turn ON.

The output will turn ON for the duration of the predetermine cycle. During this cycle the current of the output will also be displayed at the bottom of the screen.

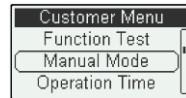



If the user wishes to skip the output, or go ahead and move to the next output, **OK**  can be pressed and the remaining cycle time for that output will be skipped. At the end of the Function Test cycle the visual/audio alarms, as well as the backup batteries will be tested.

## How to use Manual Mode

**Manual Mode** allows operator(s) to temporarily run a specified output for a period of time. The time of this run is predetermined at time of construction.

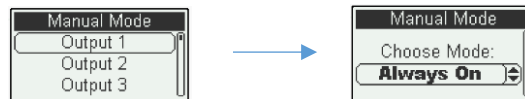
Once the user has accessed the **Customer Menu**, scroll **Down**  to **Manual Mode** and Press **OK** 



In the **Manual Mode** menu scroll down to the **Output** you would like to control, Press **OK**  to select.

Choose between Automatic, Always ON and Always OFF modes by scroll UP or Down.

**Automatic** uses the predetermine settings of the Output. **Always ON, Always OFF** enables/disables the Output for a period of time, set by the manual run time setting. Once the Mode has been chosen, Press OK to enable. Press ESC to exit the Manual Mode Menu.



## Check Active Inputs

Active Inputs can be checked on the Main Screen of the panel. Near the bottom of the screen **Inputs** display whether Inputs 1 to 4 are active. Shaded Inputs are active.



If there are more than 4 inputs in the control Panel the input screen needs to be accessed to verify the status of the remaining inputs. To access the Input screen, press the **UP** button while on the main screen.