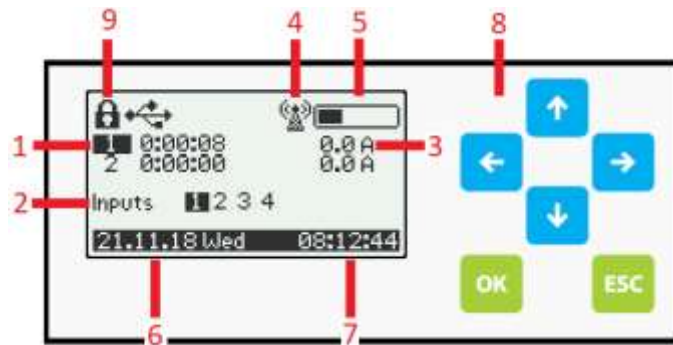# Click+Clean Control Panel Series 2.5 Basic Manual

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. This menu is not password protected.
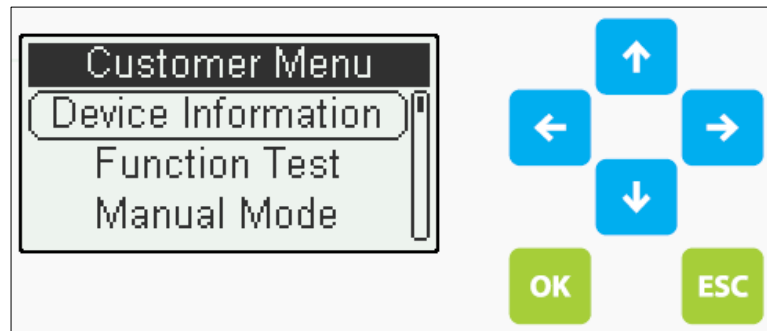
Device Information
General information regarding the device. Includes Firmware version, Serial Number, Variant information and production date.

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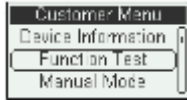
Scroll down to **Start** Test and press **OK**. A pre-set delay will start counting down and the first Active output will turn ON.

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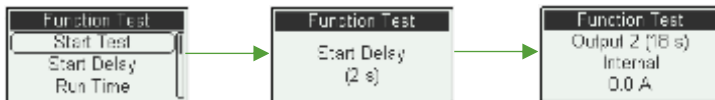
If the user wishes to skip the output, or go ahead and move to the next output, **OK** can be pressed and the remaining cycle time for that output will be skipped. At the end of the Function Test cycle the visual/audio alarms, as well as the backup batteries will be tested.

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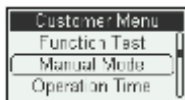
In the **Manual Mode** menu scroll down to the **Output** you would like to control, Press to select.

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 check 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 is 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.

Main Menu

The **Main Menu/Operator Menu** gives the user access to the core functions of the system and the ability to change/modify parameters and functionality of the system including outputs, inputs, run times, etc**.** This menu is password protected.

The **Main menu** is accessed by pressing **OK** on the main screen. If system is password protected it will prompt the user to enter the password

 Use the **Left** and **Right** keys to move the cursor. Use the **UP** and **Down** keys to change the numbers. If the password is lost, please contact the administrator of the system.

After the correct password has been entered the user will have access to the **Main Menu**.

Options for the Main Menu Include:

Outputs

The Output menu will allow the user to configure the functions and inputs for each output.

Operation Time

Historical data for run times for each output. It keeps log of the last 52 calendar weeks.

Reports

History of events that have occurred in the panel.

Other Settings

Additional functionality settings are found here. Backup Alarms, GPRS settings, Manual mode Run time, quiet mode duration, etc.

Service

Advanced functionality found here, recommended only for service technicians.

Output Setup

The panel interface offers the same functionality for programming outputs as the **Series2 Software**

Choose Mode

In the **Main Menu,** scroll **Down** [↓] to **Outputs** and press **OK** [OK]. Scroll down to the **Output** you would like to change the settings for and press **OK.** Select the Operating Mode to choose the **Mode** the Output should be configured for.
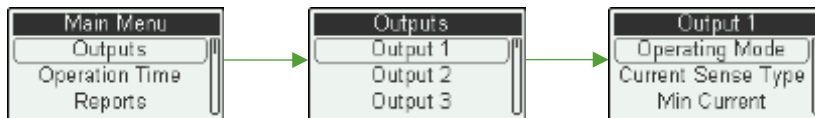
Scroll down [↓] to choose the operating mode for the selected output:
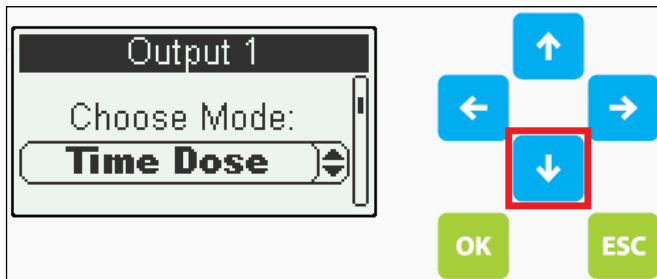
Off

Turns the selected output OFF permanently.

Time Dose

Time dosing allows an output to be control through preset Run Time and OFF Time settings to dose specific volumes. Using this approach rather than demand dose allows the effluent to be spread out more equally during the day.

Timed dosing uses floats/transducer to control operation. However, the float switch is a signal float instead of a motor-rated switch. When the effluent rises to the preset level, the float sends an electric signal to the control panel. This enables the timer. Time dose can be set up in 2 Float/ 3&4 Float and Transducer configurations.

Demand Dose

Demand Dose activates the output as soon as the **Start** signal is active. Operation will stop once the input is deactivated. Demand dose can be set up in 2 Float/ 3&4 Float and Transducer configurations.

Chemical Dose

Function designed specifically to be used when chemical needs to be dosed. This function is controlled by another output that triggers either a time dose or demand dose for the chemical pump. Chemical Dosing allows the user to also set ON delays as well as OFF delays in case the cycles need to wait or extend past the cycle time of the master output. This function also allows a second output to be turned ON in parallel.

Aeration Mode

Aeration Mode allows the user to run the Blowers continuously or Time dosed, it does not require any inputs for the settings to activate. Alternatively, a Default OFF input can be installed to allow alternate run cycles in case the water level is low, and the aerator does not need to be used as much. Time dose can be set up in 2 Float/ 3&4 Float and Transducer configurations.

Day / Night

Day / Night mode allows the user to set different run cycles during 2 time periods of the day. If the user wishes to have the outputs run more frequently during the day, and less at night this Mode will allow that. Also, if there are periods during the day when the output does not need to be ON that can be programmed as well. Time dose can be set up in 2 Float/ 3&4 Float and Transducer configurations.

Permanent On

The output will remain ON at all times.

Press **OK** [OK] to confirm selection.

Press **ESC** [ESC] to go back to the previous screen once the setting has been confirmed.

Internal or External Current Sense

Output modules come with a current sensor built in that is rated to handle the maximum load the contactor is rated for. In this case the current setting can be set to **Internal**. However, if an external current sensor is to be used make sure to select the correct external current setting on the panel to match the current sensor being used. Select the current source according to the following settings:
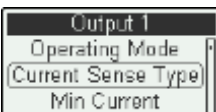
 External 10A, External 20A, External 50A
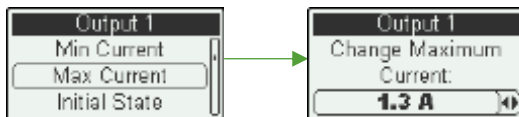
Set Undercurrent / Overcurrent

Set minimum and maximum current thresholds. If the level goes below the Minimum current set, the output will stop, and an alarm will go off to notify the user that the output is below the operating range. In case that the output goes above the Maximum current set, the output will be stopped, and an alarm will go off to notify the user and avoid damages to the output. It is advised that the minimum current is set above zero, but not too close to the operating range.

Following the previous menu above, scroll **Down** ⬇ to **Min Current** and press **OK** OK
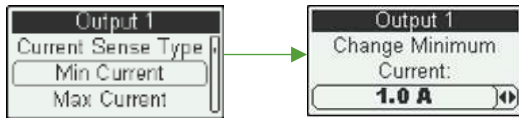
Use the **Interface Buttons** to set the minimum current. Use the **Left** ⬅ and **right** ➡ keys to move the cursor, and **UP** ⬆ and **Down** ⬇ keys to change the number. Press **OK** OK once the minimum current has been set.

Scroll **Down** ⬇ to **Max Current** and press **OK** OK.

Set the overcurrent values based on the rated max current of the output being used.

Programming Terms

*Programming outputs using the panel interface will only display the parameters that are needed for the Operation Mode you selected, it dynamically updates based on the selections.

Run Time: The amount of time a system will dose or be in an ON state for the duration of a cycle. Normally the system will be ON if the float or signal is active.

Off Time: The amount of time a system will stop the dose or be in an OFF state for the duration of a cycle.

Initial State: At the beginning of a cycle, when the signal is first activated you can select whether the output starts on the Run Time or Off time.

Input Type: Select the type of input configuration that is used to control the Output (Pump/Blower etc.). Options vary from 2 Inputs, 3/4 Inputs to Transducers.

Start/Stop Signal: Start / Stop signal float is responsible for ON, OFF operation of dosing in a 2-input setup. If a 3/4 Input setup is selected under Input Type the Stop Float because the redundant float and the Start Float is the float responsible for the ON/OFF operation.

High Level Alarm: Produce a notification to inform the user that there is a High Water level condition in the system. This input float is usually the float the top of the tank. Its only purpose is to notify, it doesn't alternate Run Time's for the outputs.

Override Alarm: Provides additional dosing options if the float selected is activated. Users have options to increase dosing settings above a specified level to avoid a critical flooding event. They can set an Override Notification, configure alternate Run Time and Off Time settings, and utilize the Duplex Slave output to double dosing capacity.

Override Run Time: The amount of time a system will dose during an Override Condition or be in an ON state for the duration of a cycle.

Override Off Time: The amount of time a system will stop the dose during an Override Condition or be in an OFF state for the duration of a cycle.

Max. No -Cycle: This feature will allow a user to set the maximum number of cycles the output should be ON during a 24Hr. period. If the number of cycles exceed this amount the system will alarm to notify the user. This is a notification only feature and it does not affect the operation of the output.

Max. Cycle Time: Maximum amount of time an output can be in operation between cycles.

Max Override Cycles: This feature will trigger an alarm if the system exceeds the set number of override cycles the output should be on Override Cycles during a 24Hr. period. This is a notification only feature and it does not affect the operation of the output.

Per Cycle Duplex/Triplex: It splits the dosing between 2/3 outputs between cycles.