

### The Aquaworx Tapper Instructions:

The Tapper broadcasts a wireless signal that is specifically designed to allow the user to program the Aquaworx IPC Panel using a Wi-Fi enabled device. The Tapper connects to the panel using a standard RJ45 cable (included) and communicates via a Wi-Fi connection to a Wi-Fi enabled device such as a mobile phone, tablet or laptop computer. Once connected, the user navigates to a website with all control settings for the IPC Panel. The Tapper is intended for use with multiple panels and includes a USB slot, allowing the user to capture and download system events and settings onto a removable USB memory device. This provides the operator with a history of system function, which is critical to troubleshooting and maintaining a pump-driven system.



#### **Power-up**

- 1. Press the power button you will see a green light next to "Power". In a few seconds you will hear a beep.
- 2. After powering up the Tapper please wait through the start-up sequence (≈40 seconds). Once the light is on next to "Wi-fi" and DLC, you are ready to communicate with the panel.
- **3.** Connect the Tapper to the circuit board in the Aquaworx IPC Panel using the provided rj45 cable.

### Connect

- 1. Go to available Wi-Fi networks on your Laptop, tablet or cell phone. Find and select the network with a name starting in "Tapper" and ending in **four random characters**.
  - \*If you do not see the network restart the process.
- The password for the for this Tapper unit will be the word "aquaworx", all lower case, followed by the four random characters found in the Wi-fi network name exactly as they appear (These characters are case sensitive). Example below.

Wi-fi name (SSID): Tapper7BDA

Wi-fi Password: aquaworx7BDA

3. Once connected to the Tapper network\*, open your browser and enter <u>http://dlc3.com</u>, in the address Bar.

\* Note: When connected to the Tapper network, the user is not connected to the internet. The Tapper communicates locally with the control panel only.

- 4. The Tapper Home menu will load on the screen.
- 5. Once connected the following operation menus will be at the bottom of the page:
  - Home
  - Meters
  - Status
  - Settings
  - Events

Note: The bar at the top of each page will show the Mode of the panel which it is connected to. That bar will be green when the Tapper is connected to an operational panel. If the bar turns yellow you have lost connection to the circuit board.

**File Operations (on the Home screen):** Allows for the management and transfer of events and settings to a removable USB memory device or to the Tapper's internal memory.

Meters: Displays the operational data for the panel

DLC controller version - Circuit board software version

Box ID – Control panel serial number

Event Count - Total number of events since last cleared

Runtime - Total run time on pump since installation

Doses - Counter displays the total number of normal doses

Vetos - counter displays the total number of veto doses

Status: Displays the current status of the panel and provides manual operation

Status – Panel status, Man on man off, Idle, waiting, pumping

On Time – Counts in minutes when pump is running

Off time - Counts in minutes when pump is in off cycle

**Inches** – Displays current liquid level in inches in pump vault, measured from the bottom of the transducer bell

**Run A / Stop A** - Allows user manual operation of the pump. *Note: Return panel to auto operation when manual pumping is complete* 

Auto Operation - resets the panel to auto mode

**Clear Timers** - sets on time and Off time to zero and initiates manual off cycle. Must select Auto Operation to put panel back in auto operation. *Note: Clear Timers does not work with dlc1 circuit boards.* 

**Settings:** Set times and levels in the panel. Select value you would like to change. Use popup keyboard to enter updated settings.





Settings Events

# Note: Must enter "update settings on DLC" at the bottom of the page to save changes.

### **Pump A or B Settings**

On Time - pump run time above start level

Off time - Pump off time above the start level

**Veto On** - Pump run time when above the veto level. Never set to zero, must be above start level.

**Veto Off** - Pump Off time when above the veto level. Never set to zero, pump will not run.

**Start Level** - Level that time dosing is initiated. If controller is in an "Off" cycle when level is rising, it will complete that cycle prior to beginning a pump "On" cycle.

**High Level** - Level set initiate a high-level alarm. Level is measured from the bottom of the transducer bell.

Veto level - Level when the controller switches to veto On/Off time settings.

**Veto feature** – Veto feature allows the user to operate a second On/Off timed cycle of the system. When liquid level passes the veto level the system will automatically change to operate under the Veto settings. The Controller will complete the On/Off cycle it is currently running when changing from normal to Veto or from veto to normal. This feature is used to help maintain a time dosed regime in periods of peak volume.

**Auto Clear** - the number of On/Off cycles the panel will complete after pumping below the start level. Typically, Auto Clear is set to 1 dose. This ensures that occasionally, the liquid level will drop below the bottom of the transducer bell. When programmed for very small doses or with larger tanks it may take multiple doses to pump the tank down enough to clear the bell. In this scenario use twice as many doses as it takes to pump down 1 inch for auto clear setting. System will always run complete on and off cycles.

**Zero Bias** - the number or letter that is on the transducer. Example: ZB-08. This is value is set during the initial installation or when a circuit board or transducer is replaced. When set to demand dose set zero bias to one unit higher that what is on the bell.

**Clock settings** - Time of day settings. Can be synced to the host device. Phone, laptop or tablet you are communicating with.

Events: Controller event history is stored and managed from this menu.

Evt Count - displays full event counter

Clear log – clears the event counter

**Analyze** – provides graphic and report summary. Must press "Get All" before using Analysis.

Get Last - retrieves the most recent event.

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Get All – downloads all events to screen.

Stop - stops download of events

"+" - press + to expand the view events

Note: If the event log has been cleared or if the user believes there are events not being displayed, enter the number 4000 to download the full event file. Enter 4096 for settings and events. If less than 4000 events have been logged on the controller, some events will be not be clear. For example, numerical values may display random letters.

**File Operations (on the Home screen):** Allows for the management and transfer of events and settings to a removable USB memory device or to the Tapper's internal memory.

Home: brings the user back to the home screen

**File:** The file menu is used to transfer settings, events and reports to and from the controller. The user can save data to the Tapper's internal memory or an external USB.

**Analyze**: Allows the user to review an Event Summary and view a graph of the data. Graphs feature is a trial. Graph may not always display properly.

Events: is the standard events menu described above.

## Saving a Report:

With thumb drive installed in a computer, setup a folder (directory) to receive data.

Make a folder named Aquaworx. In that folder make three folders. Name them; EVT, RPT, SET. This can also be done by inserting the thumb drive into the Tapper then go to; <u>http://dlc.com/prepusb.html</u> in the address bar.

Insert thumb drive in USB slot on Tapper Unit. Tapper will beep.

Go to Event page and "Get All" then "Analyze"

Next go to File Page and Select External USB, File Type; "Report" tap "Save".

Remove thumb drive, insert in computer, Report will come up as a text file. Text file can then be opened in a document file (Libre office, Word) or converted to a spreadsheet file.

Warning: Risk of fire! Battery can explode or leak and cause injury if handled improperly. Do not install backward, disassemble, crush or expose to high heat or fire.

**Use only li-ion 3.7-volt rechargeable battery size 14500.** Replacements are available from ISI. Use of the wrong battery may cause personal injury or damage to the unit.



