

# Little River Research & Design

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## Emriver Alix Digital Flow Controller

### Instructions for Use

rev. 1.2 Jun 2015; software version 6.0

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Your digital flow controller can provide precise measurement of flow rates and automatically run hydrographs. Here are instructions for setup and use.

#### Connect the controller

Place the claw mount opening of the bracket over the edge of the box and tighten Screw One so that the bracket is secure along the edge of the box. The controller can be mounted anywhere along the edge of the box. An extension has been provided so that the controller can be powered at any distance from the power supply. If you need to remove the Alix controller from the mounting bracket, just loosen Screw Two until the balls are removable from their sockets.



**Be sure the controller claw bracket is secure along the inside edge of the box by tightening Screw One. Screw Two allows for the removal of the Alix controller box.**

Remember that Emriver system connections are color-coded.  
Connect the controller to the power supply using the black and red connectors.  
Connect the controller to the pump using the grey and orange connectors.

There are two LED indicator lights on the controller. The left indicator light displays when the power is on. The right indicator light displays when the pump is running.

## **Using the controller**

### **Menu navigation**

Press the knob on the controller to access the main menu. Turn the knob to navigate through the menu options. An arrow indicates menu position. Select an option by pressing the knob on the controller.



**Main menu screen**

### **Calibration**

It is important to calibrate the controller before each use. This process takes a couple of minutes.

Begin by clearing the air from the lines. To do this, access the main menu (by pressing the knob on the controller), and choose “Full power.” Air bubbles should be cleared from the tubing within a couple of seconds of running the pump at full power. You may need to agitate the pump inside the reservoir to remove trapped air from it or its intake filter.

Next, dial down the flow rate by turning the knob on the controller to the left. Continue to do this until you find the point at which flow stops. One click to the right of the point at which flow ceases should result in a trickle from the Energy Dissipater Unit outlet. When the flow is at this trickle, navigate back to the main menu (by pressing the knob on the controller) and select “Calibrate.”

## **Other Menu Options**

### **> Reset counters**

The digital flow controller measures total discharge and run time. To reset these values, select the “Reset counters” option from the main menu.

### **> Free run/off**

When this option is selected, the pump will shut down. Dial flow up to desired rate from this point by turning the knob to the right. Decrease flow rate by turning the knob to the left. Flow rate will display on the screen.

When using the free run option, you may need to clear the hose of air bubbles by turning the flow up relatively high. You may work back down to the desired flow rate from this point.

Remember that while selecting this option will shut down the pump, the system is not powered off unless power is disconnected.

### **> Hydrographs**

The digital flow controller contains six preprogrammed hydrographs that will automatically vary flow in the model over a specific length of time.

To run a hydrograph, select “hydrographs” from the main menu. Navigate through the submenu to choose a hydrograph.



**Hydrograph submenu**

A beep will sound as flow changes over the course of the hydrograph. Flow rate and total discharge are displayed on the screen.

When the hydrograph is finished running, the pump stops and the controller screen displays total discharge and time.

Preprogrammed hydrographs include:

1. Flashy (8 minutes)
2. Flashy (5 minutes)
3. Regulated (19 minutes)
4. Classic HiQ (17 minutes)
5. Classic LoQ (18 minutes)
6. Megaflood (16 minutes)

### **Extended Support**

If you have any trouble or questions, please visit the [Alix Digital Flow Controller support page](http://www.emriver.com/?page_id=2059) (http://www.emriver.com/?page\_id=2059), or contact us.

See a video guide to using the Alix Digital Flow Controller on our website [here](http://www.emriver.com/?page_id=989) (http://www.emriver.com/?page\_id=989).