

<b>Manufacturer:</b>	Hunter Industries
<b>Model Number(s):</b>	<b>SRC, SRC Plus, Pro-C, ICC</b>
Comments:	
Document Revision Date:	7/14/2009

## **OVERVIEW AND SUPPORTED FEATURES**

Installing a Hunter irrigation controller can be broken down into the following steps:

1. Work with the client and the irrigation contractor to determine which Hunter controller to use, and how to organize the Zone Groups. See **Suggested Design Procedure** below.
2. Install and connect the **SerialBrick – Irrigation** electrically to the Hunter controller. See **Installation Overview** for the list of steps required.
3. Integrate the irrigation system into the **OneHome** system and test proper operation. This step is outlined in **HomeLogic Configuration Details**.

### **HUNTER IRRIGATION SYSTEMS SUPPORT THE FOLLOWING FEATURES:**

**Familiar Product:** The Hunter controllers are familiar to the industry, and can be well understood by all irrigation contractors.

**Manual Control:** Hunter controllers can be easily run in manual mode right at the controller to test operation, check for broken or clogged heads, and perform other standard maintenance, without requiring access to the **OneHome** system.

**Rain Sensor:** All supported Hunter controllers allow the connection of a rain sensor to prevent watering when not needed. The **OneHome** system detects the status of the rain sensor and displays it in the history view (version 4 and later).

**Devices Supported:** The SRC, Pro-C and ICC lines of controllers support a wide variety of residential, light commercial and commercial installations. Anywhere from 3 to 48 zones are supported, with various plastic and stainless steel enclosure options. Refer to the table in **Suggested Design Procedure** for details of the three Hunter lines: refer to the Hunter Web site for more details ([www.hunterindustries.com](http://www.hunterindustries.com)).

### **IMPORTANT NOTES WHEN WORKING WITH THE HUNTER CONTROLLER:**

The **SerialBrick-Irrigation** **must** be installed in close proximity to the irrigation controller.

The **OneHome** system communicates with the Hunter controllers using the Hunter SmartPort®, which is a one-way communication link. As a result, any schedule information on the controller cannot be read by the **OneHome** system.

The Hunter irrigation controller should be left in the **OFF** position for day-to-day operation by the **OneHome** system. With the controller in the **OFF** position, the **OneHome** system will be able to turn on and off any zone, as well as detect the state of the rain sensor.

Manual operation of any zone directly from the irrigation controller is available at any time, as with any standard Hunter installation. Return the controller to the **OFF** position when finished.

## **SUGGESTED DESIGN PROCEDURE**

### **STEP 1: DETERMINE AN APPROPRIATE PANEL**

<b>Model</b>	<b>Stations (Zones)</b>	<b>Comments</b>
SRC Plus	6 or 9	Plastic, Indoor, Wall Mount
Pro-C	3, 6, 9, 12 or 15	Plastic, Indoor or Outdoor, Wall Mount
ICC (Plastic)	8 to 32	Plastic, Indoor or Outdoor, Wall Mount
ICC (Plastic Pedestal, or Metal)	8 to 48	Plastic (Pedestal) or Metal (Wall Mount or Pedestal), Indoor or Outdoor

The irrigation contractor will typically work with the client to determine how many zones are needed, and where the zones will be placed.

During this planning process, work with the client and the irrigation contractor to assist in the selection of a controller that will satisfy their requirements and also tie into the **OneHome** system. Refer to the table above and the details available on the Hunter Web site.

### **STEP 2: ORGANIZE THE ZONES INTO GROUPS**

Before configuring the **OneHome** system, you should work with the client (with input from the irrigation contractor or landscaper) to put the zones into groups: one group for each primary plant type or area.

Typical Zone Groups include:

- ❖ Lawn: these zones cover grass areas and are typically watered every few days for a relatively long time to promote deep root growth.
- ❖ Flower Beds: these are zones in a garden that may be watered every day for a relatively short period of time.

Organizing the zones into Zone Groups is important because the **OneHome** Viewer interface displays and manages the irrigation scheduling by Zone Groups. As an example, the user selects the days to water for each Zone Group, not for each zone.

## **INSTALLATION OVERVIEW**

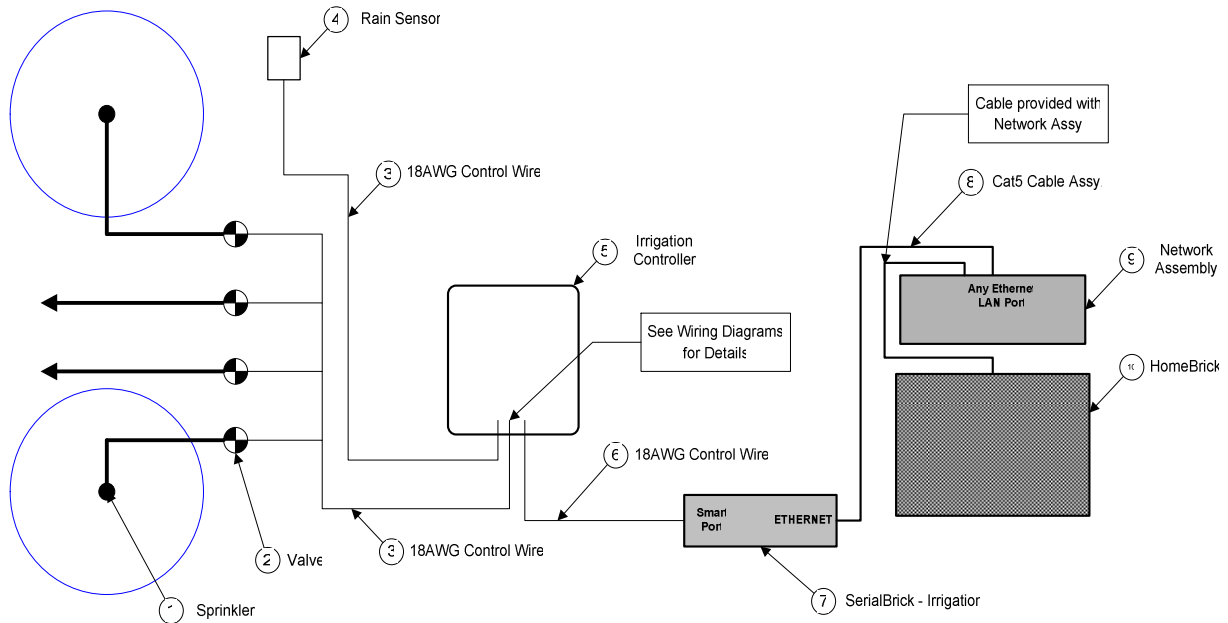
The following steps are needed for installation.

Refer to the diagrams that follow for various wiring scenarios.

1. During the rough-in phase, run a Cat5 cable from the irrigation controller location to the HomeLogic system.
2. The **SerialBrick – Irrigation** **must** be installed in close proximity to the irrigation controller location in a weather proof environment. You may wish to install a single-gang outlet adjacent to the controller to cleanly terminate the Cat5 to an RJ45 Female connector.
3. Install the irrigation controller and test that all zones function normally in manual mode.
4. Install the **SerialBrick – Irrigation** adjacent to the irrigation controller.
5. Electrically connect the **SerialBrick – Irrigation** to the Hunter SmartPort® and to the Ethernet network.

## CONNECTION DIAGRAM

The diagram below shows an overview of a typical system. Refer to the **Bill of Materials** for additional detail, including specific part numbers.

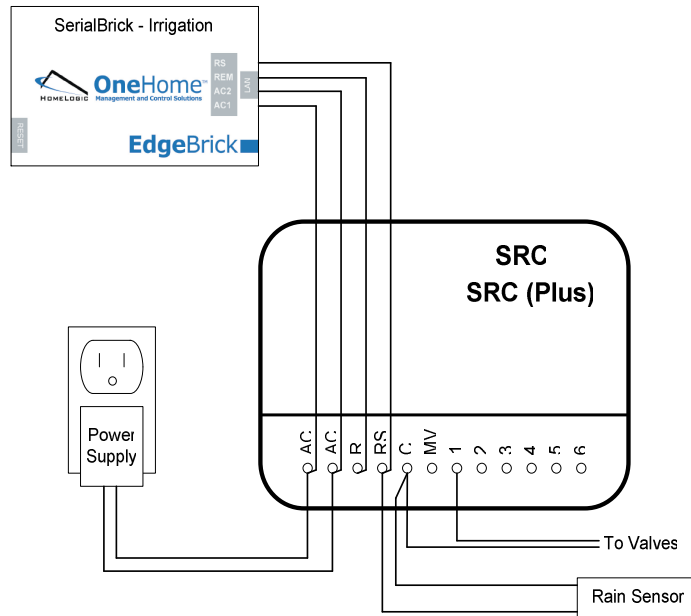


## BILL OF MATERIALS

Bill of Materials

#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	Sprinkler	Various	N/A	N/A	N/A	
2	Valve	Various	N/A	24VAC	Pigtail	
3	18AWG Control Wire	Various	N/A	24VAC	Pigtail	
4	Rain Sensor	Hunter	Mini-Click	Various	Pigtail	
5	Irrigation Controller	Hunter	SRC, SRC Plus, Pro-C, ICC	24VAC X SmartPort	Terminal Strip	
6	18AWG Control Wire	Installer	N/A	SmartPort	Pigtail	
7	SerialBrick - Irrigation	HomeLogic	HW-EB-101	SmartPort X IP	Terminal Strip X RJ-45 Female	
8	Cat5 Cable Assy.	Installer	N/A	IP	RJ-45 Male X RJ-45 Male	
9	Network Assembly	HomeLogic	HW-NA-18X4	IP X IP	RJ-45 Female X RJ-45 Female	Use any available LAN port
10	HomeBrick	HomeLogic	HW-HB-1080	IP	RJ-45 Female	

**WIRING DIAGRAM 1: HUNTER SRC, SRC PLUS**



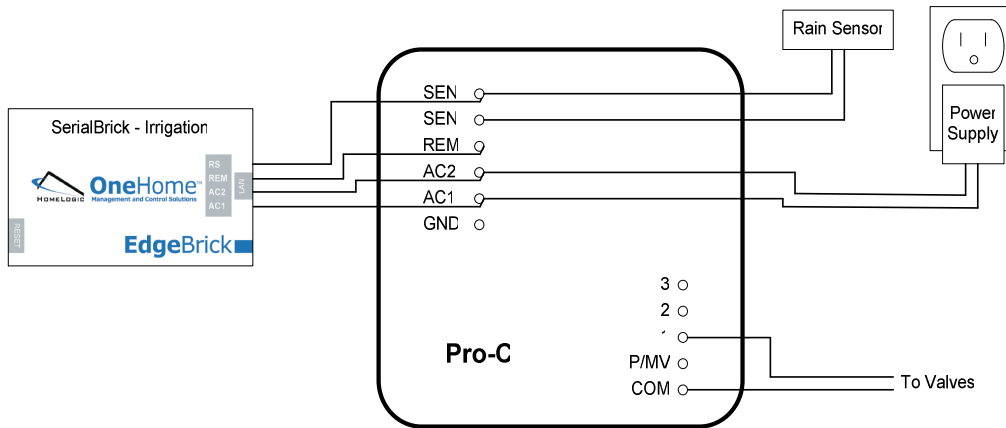
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**IMPORTANT NOTE FOR RAIN SENSOR:** The Hunter documentation instructs you to connect the common from the valves to the RS terminal, while we show the common going to the C terminal above. To enable manual control from the OneHome Viewer when the rain sensor is open, you must wire the common to the C terminal as shown.

Note: If no rain sensor is being used, short the rain sensor pins instead to simulate a “no rain” state. Failing to either attach a rain sensor or short the pins will prevent HomeLogic from controlling the Hunter panel.

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**WIRING DIAGRAM 2: HUNTER PRO-C**



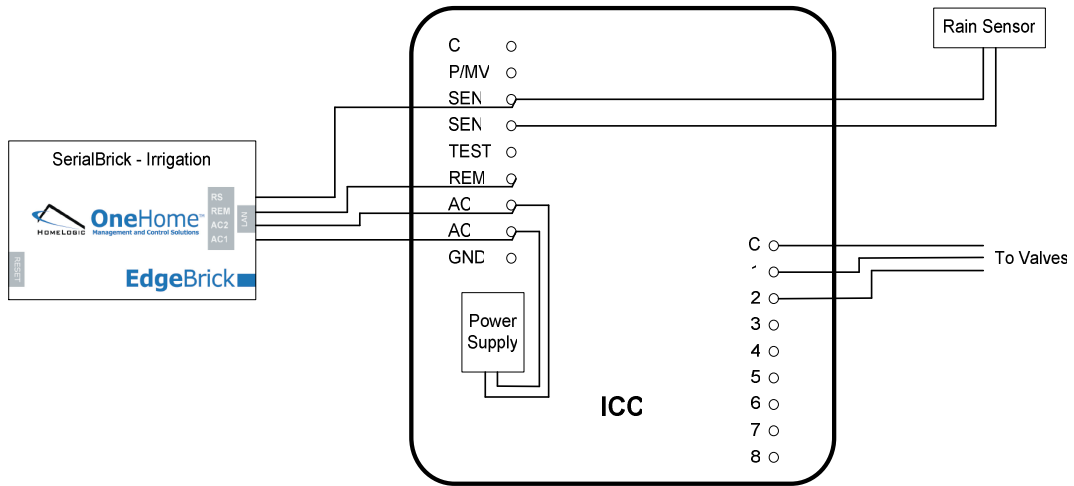
**NOTE:** The **TOP** rain sensor terminal of the Pro-C goes to the **RS** terminal on the **SerialBrick - Irrigation**.

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**Note:** If no rain sensor is being used, short the rain sensor pins instead to simulate a “no rain” state. Failing to either attach a rain sensor or short the pins will prevent HomeLogic from controlling the Hunter panel.

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**WIRING DIAGRAM 3: HUNTER ICC**



**NOTE:** The **TOP** rain sensor terminal of the ICC goes to the **RS** terminal on the **SerialBrick - Irrigation**.

**Note:** If no rain sensor is being used, short the rain sensor pins instead to simulate a “no rain” state. Failing to either attach a rain sensor or short the pins will prevent HomeLogic from controlling the Hunter panel.

## HOMELOGIC CONFIGURATION DETAILS

The following table provides settings used in the HomeLogic Configurator when connecting to a Hunter irrigation controller. Please refer to the Configurator Reference Guide for more details.

In the table below:

- “<Select>” Select the appropriate item from the list (or drop-down) in the Configurator.
- “<User Defined>”, etc. Type in the desired name for the item.
- “<Auto Detect>”, etc. The system will auto detect this variable.

Devices	Variable Name	Setting	Comments
<b>Communication Devices</b>	<b>Name</b>	<Auto Detect> (Default: <b>Hunter 00-00-00</b> ) (See Note 1)	
	<b>Type</b>	<b>(IP to Serial) SerialBrick</b>	
	<b>Select Brick</b>	<Select>	
	<b>Communication Type</b>	<b>Standard Connection</b>	
	<b>Location</b>	<User Defined> (Not Required)	
<b>Irrigation Controller</b>	<b>Name</b>	<User Defined> (Default: <b>Hunter SRC, Pro-C, ICC</b> )	
	<b>Device Type</b>	<b>Hunter SRC, Pro-C, ICC</b>	
	<b>Location</b>	<User Defined> (Not Required)	
	<b>COM Device</b>	<Auto Detect> (Default: <b>Hunter 00-00-00</b> ) (See Note 1)	
<b>Irrigation Zone Groups</b>	<b>Name</b>	<User Defined>	You must add at least one zone group.
<b>Irrigation Zones</b>	<b>Controller</b>	<Auto Detect>	
	<b>Zone Number</b>	<User Defined> (Default: 1)	This is the Hunter station number or terminal number
	<b>Group</b>	<Select>	
	<b>Zone Name</b>	<User Defined> (Default: <b>New Zone</b> )	
<b>Irrigation Periods</b>	<b>Period Name</b>	<User Defined> (Default: <b>New Period</b> ) (See Note 2)	Add one period for each desired start time.

### Notes:

1. The OneHome system reads the name from the **SerialBrick**. The name by default is **Hunter: 00-00-00**, where the 00-00-00 will show the actual serial number.
2. There is one period (Morning) by default. Add one period for each addition start time desired, such as **Noon**, and **Evening**.

## **COMMON MISTAKES**

1. Wiring the **AC1** and **AC2** terminals on the **SerialBrick** – Irrigation backwards. Check the wiring diagram for your model of controller.
2. On the SRC or SRC Plus, failing to wire the rain sensor according to the diagram show in this Integration Note. If you follow the instructions provided in the Hunter documentation then you will not be able to manually turn on a zone from the **OneHome** system (to check the spray pattern, for example) when the rain sensor is open.
3. On the Pro-C and ICC, wiring the rain sensor to the wrong **SEN** terminal. Check the wiring diagram for your model of controller.
4. If the Hunter panel is showing **Err** in its display then the wiring length between the SerialBrick and the Hunter panel may be too long. In this case relocate the SerialBrick closer to the Hunter panel.