Integration Note

Manufacturer:	Hunter Industries
Model Number(s):	**ACC**
Minimum Core Module Version:	
Document Revision Date:	2/12/2013

OVERVIEW AND SUPPORTED FEATURES

IMPORTANT: The Hunter ACC (Advanced Commercial Controller) is NOT a recommended product to integrate with g!, because many of its features and capabilities are not accessible through the SmartPort® which the g! system uses to communicate with the ACC.

HUNTER ACC 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 **g!** system.

HUNTER ACC IRRIGATION SYSTEMS DO NOT SUPPORT THE FOLLOWING FEATURES:

Rain Sensor: The Hunter ACC rain sensor wiring is not compatible with the current SerialBrick – Irrigation, and as a result, the **g!** system will water even if the ACC rain sensor is open.

Flow Sensor: The Hunter ACC can optionally have a flow sensor connected, allowing the controller to shut down when irregular flow is detected. This feature is not supported by the **g!** integration.

ET Module: The Hunter ACC can optionally be tied to an ET weather station. This capability cannot be integrated with **g!**.

Any feature not specifically noted as “supported” is not supported.

IMPORTANT NOTES WHEN WORKING WITH THE HUNTER CONTROLLER:

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

The **g!** 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 **g!** system.

The Hunter irrigation controller should be left in the **OFF** position for day-to-day operation by the **g!** system. With the controller in the **OFF** position, the **g!** system will be able to turn on and off any zone.

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.

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INSTALLATION OVERVIEW

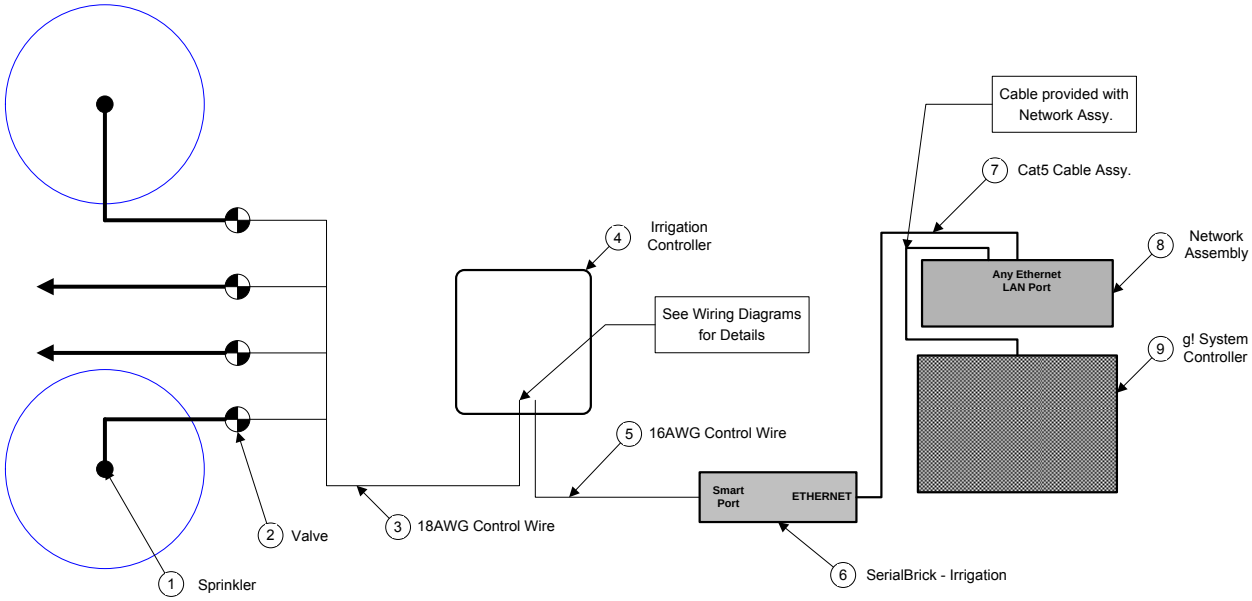
The following steps are needed for installation.

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 **g!** system.
2. The **Serial**Brick – 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 **Serial**Brick – Irrigation adjacent to the irrigation controller.
5. Electrically connect the **Serial**Brick – Irrigation to the Hunter SmartPort® and to the Ethernet network.

CONNECTION DIAGRAM

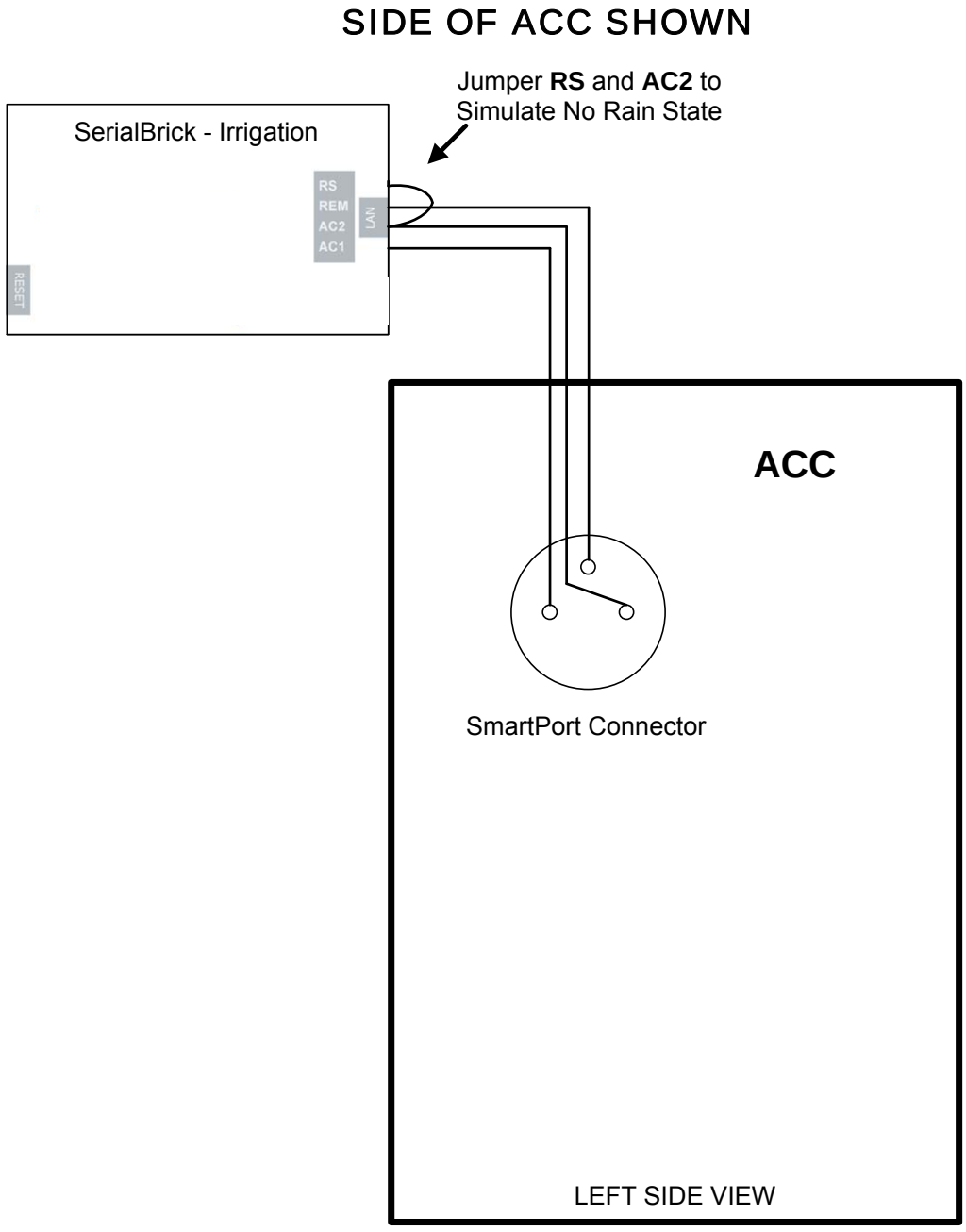
The diagram below shows an overview of a typical system. Refer to the **Bill of Materials** for additional detail, including specific part numbers.



BILL OF MATERIALS

#	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	16AWG Control Wire	Various	N/A	24VAC	Pigtail	
4	Irrigation Controller	Hunter	ACC	24VAC X SmartPort	SmartPort Connector	
5	18AWG Control Wire	Installer	N/A	SmartPort	Pigtail	
6	SerialBrick - Irrigation	ELAN	HW-EB-101	SmartPort X IP	Terminal Strip X RJ-45 Female	
7	Cat5 Cable Assy.	Installer	N/A	IP	RJ-45 Male X RJ-45 Male	
8	Network Assembly	ELAN	NWA	IP X IP	RJ-45 Female X RJ-45 Female	Use any available LAN port
9	g! System Controller	ELAN	Various (e.g. HC12)	IP	RJ-45 Female	

WIRING DIAGRAM: HUNTER ACC



g! CONFIGURATION DETAILS

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

Notes:

1. The **g!** system reads the name from the **Serial**Brick. 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 **Serial**Brick – Irrigation backwards. Check the wiring diagram for your model of controller.
2. 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.