

# PEARL G-SERIES CONTROLLERS

ADVANCED CONTROLLER SYSTEM

Link4  
CORPORATION

CS-PEAG-01-0423



Models may differ from photos shown

## DESCRIPTION

The Pearl G-Series line of controls is designed to meet the environmental control requirements of most standard greenhouse applications. The different models are designed to match the complexity and requirements of the grower and are compatible with standard greenhouse equipment utilized by growers.

The unique design allows for greater expandability and flexibility for the grower. You can add input and output modules to expand to your specific requirements. With the integrated panel option, your controls can be mounted with the required contactors for easy installation and the assurance that your controls are connected properly.

The Pearl G-Series can be programmed at the controller with basic programming functionality or connect to the Link4 Cloud to enhance the operation of your controller. The Cloud offers the grower the ability to remotely control, monitor and receive alarm notification allowing you to stay connected to your operation while you are away.

User friendly screens allow you to easily program, change, and monitor all of your controllers that are connected to the Cloud from a single source. You will be able to assign users with specific access levels, add grower, or maintenance notes, or store photos, and assign tasks through the Cloud. In addition, you can identify important growing trends and ensure future crop success via insights gained using reports and graphs derived from data stored on the Cloud.

## KEY FEATURES

- **Smaller control modules** for reduced panel sizes and greater installation flexibility.
- **Snap in modules** for easy expandability and servicing.
- **UL rated integrated panels** for easy and accurate installation.
- **NEMA 4 panels** for superior protection from water intrusion, sunlight, and weather.
- **Link4 Cloud compatible** for remote accessibility and advanced functionality.
- **Multiple models** to meet the needs of your specific operation.

## “We Make Growing Easier”

INTELLIGENT CLOUD-BASED CONTROL SOLUTIONS

175 E. Freedom Avenue, Anaheim, CA 92801 | 714.524.0004 | 866.755.5465 | Fax: 714.854.7244 | [www.link4controls.com](http://www.link4controls.com)



# PEARL G-SERIES CONTROLLERS

ADVANCED CONTROLLER SYSTEM

## CONTROLLER FUNCTIONALITY

BASIC	MODEL STG	MODEL ADG	MODEL EDG
<b>MANUAL OVERRIDE SWITCHES</b>	Yes	Yes	Yes
<b>PROGRAMMABLE AT THE CONTROLLER <sup>2</sup></b>	Yes	Yes	Yes
<b>PROGRAMMABLE ON THE CLOUD</b>	Yes	Yes	Yes
<b>ALARM NOTIFICATIONS</b>	Yes	Yes	Yes
<b>CLOUD GROW JOURNAL</b>	Yes	Yes	Yes
<b>INTEGRATED CONTACTOR OPTION</b>	Yes	Yes	Yes
<b>TEMPERATURE</b>			
<b>ON / OFF FOR COOLERS, FANS, PUMPS</b>	Yes	Yes	Yes
<b>ON / OFF FOR SHUTTERS</b>	Yes	Yes	Yes
<b>ON / OFF FOR VALVES</b>	Yes	Yes	Yes
<b>PROPORTIONAL MIX VALVE CONTROL</b>	No	Yes	Yes
<b>ON / OFF FOR UNIT HEATERS</b>	Yes	Yes	Yes
<b>TEMPERATURE AVERAGING</b>	No	Yes	Yes
<b>HUMIDITY</b>			
<b>ON / OFF HUMIDIFIERS, HEATERS, FANS</b>	Yes	Yes	Yes
<b>DH 1 WITH BASIC OVERRIDES</b>	Yes	Yes	Yes
<b>CO2</b>			
<b>ON / OFF CONTROL w/ BASIC OVERRIDES</b>	No	No	Yes
<b>LIGHTING</b>			
<b>SCHEDULED LIGHTING CONTROL</b>	No	Yes	Yes
<b>CYCLIC LIGHTING CONTROL</b>	No	Yes	Yes
<b>DLI LIGHTING CONTROL</b>	No	No	Yes
<b>SUPPLEMENTAL LIGHTING CONTROL</b>	No	No	Yes
<b>SUNRISE / SUNSET LIGHTING CONTROL</b>	No	No	Yes
<b>SPECTRAL TUNING (for capable lights)</b>	No	No	Yes
<b>IRRIGATION</b>			
<b>SCHEDULED IRRIGATION CONTROL</b>	Yes	Yes	Yes
<b>CYCLED IRRIGATION CONTROL</b>	Yes	Yes	Yes
<b>TRIGGERED IRRIGATION CONTROL</b>	No	Yes	Yes
<b>CALENDARED IRRIGATION CONTROL</b>	No	Yes	Yes
<b>ACCUMULATED LIGHT IRRIGATION CONTROL</b>	No	Yes	Yes
<b>SUBSTRATE MOISTURE IRRIGATION CONTROL</b>	No	Yes	Yes
<b>VPD IRRIGATION CONTROL</b>	No	Yes	Yes
<b>WATER SUPPLY PUMP TRIGGER CONTROL</b>	No	Yes	Yes
<b>FILL VALVE TRIGGER CONTROL</b>	No	Yes	Yes
<b>CURTAIN / VENT CONTROL</b>			
<b>OPEN CLOSE CURTAIN CONTROL</b>	Yes	Yes	Yes
<b>OPEN / CLOSE / PROPORTIONAL VENT CONTROL</b>	Yes	Yes	Yes
<b>WIND SPEED / DIRECTION OVERRIDES</b>	Yes	Yes	Yes
<b>OTHER</b>			
<b>MICRO ZONE CONTROL</b>	No	Yes	Yes
<b>MUTI-ZONE CONTROL</b>	No	No	Yes
<b>ADVANCED PROGRAMMING OPTION (AUX)</b>	No	No	Yes
<b>MODBUS INTEGRATION- LISTED 3rd P DEVICE</b>	No	No	Yes

<sup>2</sup> Limited functionality

## GENERAL CONTROLLER INFORMATION

<b>CONTROLLER TYPE</b>	Environmental / Irrigation
<b>PROJECT TYPE</b>	Greenhouse
<b>PROJECT COMPLEXITY</b>	Simple to advanced (model dependent)
<b>PROJECT SIZE</b>	Small to large (model dependent)

## PRODUCT SPECIFICATIONS

ITEM CODE	DESCRIPTION	DIM	WT
PS-SG-801-000-000-00	Pearl STG - Standalone COM inputs, 8 outputs		
PI-SG-801-000-000-04	Pearl STG - Integrated COM inputs, 8 outputs, 4 contactors		
PI-SG-801-000-000-06	Pearl STG - Integrated COM inputs, 8 outputs, 4 contactors		
PI-SG-801-000-000-08	Pearl STG - Integrated COM inputs, 8 outputs, 8 contactors		

ADG and EDG available end of year 2023  
Other models available - Contact Link4 for other options



## CLOUD COMPATIBILITY

All Pearlmodel controllers are compatible with the Link4 Cloud allowing for remote accessibility and control, as well as added advanced features.

The Cloud allows you to view and operate your controller from remote locations at any time. Set up user security and accessibility per user and zone. View your current status and create custom reports, or download the data for further analysis. View any alarm status for your zones and receive notifications regardless of your location. With the Grow Journal and Task Manager, you can enter grower notes, photos or videos, and assign tasks as required.

Cloud pricing is monthly or a discounted annual fee based on the model and number of controllers.

INTELLIGENT CLOUD-BASED CONTROL SOLUTIONS

175 E. Freedom Avenue, Anaheim, CA 92801 | 714.524.0004 | 866.755.5465 | Fax: 714.854.7244 | [www.link4controls.com](http://www.link4controls.com)

