

# iGROW 1800 SERIES

ADVANCED CONTROLLER SYSTEM

Link4  
CORPORATION

CS-1800-02-0422



## DESCRIPTION

Backed by unparalleled Link4 service and support, the iGrow 1800 offers remarkable flexibility and security, as well as a wide variety of advanced features to meet grower needs of all sizes.

Along with the standard control ability, the iGrow 1800 can handle the most complex control requirements for **indoor** and **greenhouse** facilities. Smart lighting, advanced irrigation, and custom configurations are some of the many advanced capabilities of this sensibly priced controller.

Combined with the new 1800 Cloud, the user has the ability to remotely control, monitor, report, add grower notes, and receive alarm notifications making growing easier and more successful.

## KEY FEATURES

- **Advanced capabilities** - to handle the needs of most complex indoor and greenhouse facilities.
- **Expandable to 144 outputs and 64 zones** - for small to larger project requirements.
- **Smart lighting functionality** - meeting both traditional and new lighting scheme requirements.

## SUPERIOR CLOUD MONITORING & CONTROL

- True phone app interface
- Control multiple sites and zones simultaneously
- Advanced alarm tracking and notifications
- Flexible user access assignment
- Audit tracking of all system changes
- Advanced reporting and detailed graphing
- New Grow Journal for tracking critical zone-specific crop data, issues, and required staff actions
- API interface available

## CONTROLLER FEATURES

STANDARD OUTPUTS	12
EXPANDABLE OUTPUTS	Up to 144
ZONES	1
MAX ZONES / NETWORK	64
MICRO ZONES	5 per zone
NUMBER OF ANALOG INPUTS	5 per zone
DIGITAL INPUTS	8
SET POINT PERIODS	8 (Dawn, Day, Night, Dusk, DIF 1-4)
MAXIMUM COOLING STAGES	6- Not Counting Aux Controls
MAXIMUM HEATING STAGES	6- Not Counting Aux Controls
MANUAL OVERRIDE SWITCHES	Yes
MANUAL OVERRIDE PROGRAM	Yes- for each output
PROGRAMMABLE AT PANEL	Yes
TEMPERATURE AVERAGING	6- Sensors per zone
ALARM NOTIFICATION	Yes
CLOUD PROGRAMMING	With LinkConn & Subscription
CLOUD DATA GRAPHING	With LinkConn & Subscription
CLOUD DATA REPORTING	With LinkConn & Subscription
CLOUD SECURITY & AUDIT	With LinkConn & Subscription
CLOUD GROW JOURNAL	With LinkConn & Subscription

## GENERAL CONTROLLER INFORMATION

CONTROLLER TYPE	Environmental / Irrigation
PROJECT TYPE	Indoor / Greenhouse / Hydroponics / Vertical
PROJECT COMPLEXITY	Simple to Complex
PROJECT SIZE	Medium to Large

# “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)

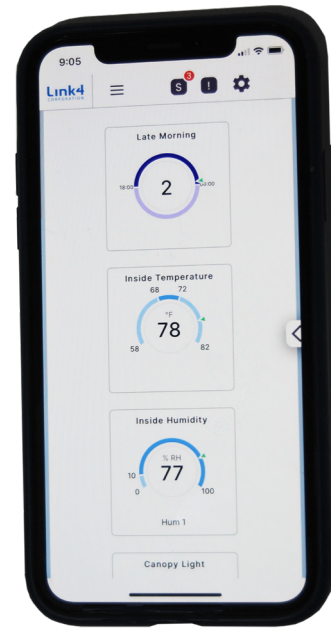


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## SENSOR INTERFACE

ITEM CODE	DESCRIPTION
990-0005-10	Weather Station- Series 1000
990-1034-00	ADISM Aspirated Sensor: Temp, Hum, CO2, Klux
990-0250-00	Digital Temp & Humidity Sensor
990-0006-03	Temperature Probe- Air: Radiation shield, 3-Wire
990-0006-01	Temperature Probe- Soil: Non-Threaded, 3-Wire
990-0006-00	Temperature Probe- Water: Threaded, 3-Wire
990-0002-00	Light Sensor- Solar: Klux (Intensity only)
990-0002-01	Light Sensor- PAR
990-7911-00	Anemometer: Wind Speed & Direction
990-7855-00	Optical Rain Sensor
990-7890-00	Barometric Pressure Sensor
xxx	Room Differential Pressure Sensor
xxx	Vent Position Sensor
990-7882-00	Soil Moisture Sensor: Measure Micro-Siemens



Integrate with the new 1800 Cloud to enhance your ability to view, control, report and receive alarms remotely.

## EQUIPMENT INTERFACE

<b>ON / OFF COOLING</b>	Pad Systems, Coolers, Fans
<b>ON / OFF HEATING</b>	Unit Heaters
<b>HUMIDTY</b>	Calculated, Dehumidifiers, Fog
<b>CO2</b>	Yes
<b>VENT MOTOR CONTROL</b>	Ridge, Wall, Pad, Roll Up Walls
<b>SHUTTER MOTORS / ACTUATORS</b>	On / Off
<b>CURTAIN MOTOR CONTROL</b>	Yes- Shade, Blackout
<b>BOILERS</b>	Yes
<b>PUMPS</b>	Yes
<b>SOLENOIDS</b>	Yes
<b>LIGHTING</b>	HID, LED: On/Off, Supplemental, DLI (Daily Light Integral), Dimming, Dim to Off
<b>MODBUS INTERFACE</b>	Yes

## PRODUCT SPECIFICATIONS

ITEM CODE	DESCRIPTION	DIMENSIONS	WT
990-1800-00	iGrow 1800 Controller Standalone	xxxxx	xx
Contact Link4	Integrated iGrow 1800 Panel with Contactors, Expansion Modules, Sensor & Cabinet	Varies	Varies

## SPECIALIZED CAPABILITIES

CONTROL	
<b>CONDITIONAL CONTROLS</b>	User defined up to 128 variables
<b>POSITIVE PRESSURE CONTROL</b>	Yes
<b>LIGHTNING PROTECTION</b>	Yes
<b>VPD MONITORING</b>	Yes
<b>VFD CONTROL</b>	With ramping for pumps, fans, compressors
<b>SPRAY OVERRIDE</b>	Temperature or post purge
<b>DIF CONTROL</b>	Yes
LIGHTING	
<b>ON/OFF LIGHTING</b>	HID, LED, Other
<b>SUPPLEMENTAL LIGHTING</b>	Light level
<b>DLI CONTROL</b>	Yes
<b>DIM TO OFF CONTROL</b>	LED - with appropriate driver
<b>LED SPECTRAL TUNING</b>	Based on 0-10 control
IRRIGATION	
<b>ON/OFF IRRIGATION</b>	Yes
<b>CYCLICAL IRRIGATION</b>	Yes
<b>MISTING / FOGGING</b>	For humidification
<b>FLOOD / PULSE IRRIGATION</b>	Yes
<b>INTELLIGENT IRRIGATION</b>	With moisture sensor
<b>ACCUMULATED LIGHT IRRIGATION</b>	Yes
<b>VPD IRRIGATION</b>	Yes

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