

# iGrow 1401 expansion

*Ideal for Commercial and Institutional Greenhouses*



## Expansion Unit for iGrow 1400 controller

adds  
12 additional outputs  
5 additional analog inputs  
7 digital inputs

Main iGrow 1400 controller is required

## Why Use a Controller?

Today's environmental controllers make saving energy costs easy and affordable! If you thought they were too difficult to use, too expensive to install, or too complicated to operate, think again.

- DIF feature allows you to grow denser, high quality crops and make the most of your greenhouse
- Many locations offer energy rebates or tax incentives for purchasing energy-saving equipment
- Environmental Controllers support responsible use of global resources

## With iGrow 1400:

- Stay competitive by bringing high end features within an affordable package
- Be confident that you're working with the latest in controls technology
- Compact size and easy to install design means lower upfront costs

## 5 Reasons to Choose iGrow 1400

1. The iGrow 1400™ was designed to lower your operating costs to save you money
2. From the environmentally sealed NEMA4 enclosure to the simple wiring layout, the iGrow 1000 series was built to last
3. The iGrow 1400™ is easy to install, easy to operate, and easy to maintain
4. Comes standard with Link4's Precision Temp and Humidity Sensor for industry-leading accuracy
5. Expand your operation up to 64 zones with 48 outputs per zone

# Lower Cost Expandable Controls

## Feature List and Control Options

### Optional Sensors

- Air Temperature Probe (alternate zone): 35 to 150°F ± 1.0°F
- Air Temperature Outdoor: -30 to 150°F ± 0.5°F
- Boiler Temperature Probe: 35 to 200°F ± 1.5°F
- CO<sub>2</sub> Level: 0-2000ppm
- Digital Trigger (Soil Moisture): Contact closure pull to ground
- Light Sensor (solar): 0 to 2000 W/m<sup>2</sup>
- Soil Temperature Probe: 35 to 200°F ± 1.5°F
- Wind Speed: 3 to 175mph (4 to 282kph)
- Wind Direction: +/- 2deg
- Rain – Tipping Bucket
- Rain – Heated Grid

### Control Features

- 12 Equipment control outputs, with manual overrides
- 4 daily set points (Day, Mid-Day, Night, DIF)
- 6 heating and 6 cooling stages
- 5 micro zones
- 2 dehumidification and 1 humidify stage
- 2 Alarm outputs

### Special Features

- Help button assists user when no manual is present
- NEMA4 lockable enclosure
- 4 line backlit graphical display for programming
- 7 button keypad for easier programming
- Programmable Stage Overrides
- Conditional Controls
- SmartCool predictive cooling
- Heat boost dehumidification
- Size 10"L x 10"W x 5"D

### Controlled Equipment

- Alarm Auto-Dialer
- Bench/Soil Heating systems
- Boiler Pumps
- CO<sub>2</sub> Injectors
- Exhaust Fans
- Fan Jets
- Fog Systems
- Gas Unit Heaters
- Grow Lights
- HAF Fans
- Heating Mix Valves
- Irrigation Systems
  - Time Schedule
  - Misting
  - Accumulated Light
  - External Trigger
- Pad Pumps
- Pad Louvers
- Radiant Heating
- Shade/Energy Curtain
- Swamp Coolers
- Vents (Roof and Side, Proportional)

### Optional Accessories

- iDrive 300 Vent and Curtain motor controller
- Custom Relay panels
- iMod expansion module

### Operational Requirement

- Main iGrow1400 controller is required.
- System can be expanded to 48 outputs.
- Additional outputs can be added with iMods.

Link4 Customer Service Back-up  
Our experts can assist you before, during, and after installation.

Contact your distributor or Link4 Corporation directly for more information on how the iGrow 1400 Control system can maximize your energy cost savings, provide key information for smart crop management, and offer simple yet advanced control of all your greenhouse climate control elements.

Link4 Corporation  
22725 La Palma Ave  
Yorba Linda, CA 92887  
Toll Free: (866) 755-5465 (LINK)  
Fax: (714) 854-7244  
sales@link4corp.com  
www.link4corp.com

