

THERMOMETERS

QUALITY DISCOUNTS
6 UNITS, LESS 10%

INDOOR/OUTDOOR WALL THERMOMETER

- Indoor and Outdoor use.
- Bright contrast graphics
- Large, easy-to-read face & recessed tube.
- 0° - 120° Fahrenheit.
- Wall mountable.
- 7-3/8" H x 1-3/4" W
- Taylor model #5152A-5



QUALITY WEATHER THERMOMETER

- Protective caps.
- Environmentally safe fluid.
- Concave design increases readability.
- Durable metal construction.
- Bright, colorful graphics.
- Accurate from -60°F to 120°F and -50°C to 50°C.
- Weather resistant and rustproof.
- Taylor model #5132N.



MAX/MIN THERMOMETER

- Easy to use push button reset.
- Also includes magnet to reset.
- F°/C° scales.
- Range is accurate with -40°/120°F and -40°/50°C.
- Compact size w/ two build-in mounts.
- Permacolor™ filled glass tubes.
- Taylor model #5458P.



Stock No.	Description	Price
190-751540TI	Wall Thermometer	\$2.47

Stock No.	Description	Price
190-751320TI	Weather Thermometer	\$4.73

Stock No.	Description	Price
190-754580TI	Max/Min Thermometer	\$21.65

INSTANT READ 1" DIAL THERMOMETER

- Instant read 0°F to 220°F.
- Shatterproof plastic lens.
- Exclusive Safe-T-Set™ recalibration feature.
- Convenient pocket case.
- Durable stainless steel stem.
- Taylor model #5989N



SOIL THERMOMETER

- Large, easy to read 1-3/4" dial.
- Durable 4" stainless steel stem w/range of 20°/180°F and 0°/80°C.
- Range indicator shows cool and warm soil temperatures.
- Taylor model #5976J



RAIN/SPRINKLER GAUGE

- Weather resistant construction.
- Tapered end for ground or post mounting.
- Bold, easy to read measurement increments.
- 5" or 127mm capacity.
- Measures in inches and millimeters.
- Taylor model #2702N



Stock No.	Description	Price
190-759890TI	Dial Thermometer	\$7.94

Stock No.	Description	Price
190-759760TI	Soil Thermometer	\$7.52

Stock No.	Description	Price
190-727020TI	Rain/Sprinkler Gauge	\$4.78

MASON'S WET/ DRY BULB HYGROMETER

- Chart attached for easy conversion for relative humidity.
- Measures from 30°/120°F on both wet and dry thermometers.
- Permacolor™ filled glass tubes.
- 4" x 9" compact size.
- Plastic housing with built in mounts.
- Taylor model #5525JI



Stock No.	Description	Price
190-755250TI	Mason's Hygrometer	\$30.81

HEATING & COOLING THERMOSTATS



VC109 2-Stage Heating and/or Cooling Thermostat Opens 2 circuits and closes 2 circuits sequentially on temperature rise. **VC115 Thermostats** Typical applications include the control of cooling (ventilation).

FEATURES:

- Rugged weather resistant enclosure made of corrosion resistant materials for long life.
- Low mass, high surface area of stainless steel coiled sensor provides rapid response to temperature change.
- Large, readily visible dial with 40° - 100° F temperature range.
- Underwriters Laboratories (U.L.) listed and CSA certified.



Stock No.	Description	Price/Each
190-2VC109JD	VC109 2-Speed or 2-Stage (Cooling)	\$163.66
190-2VC115JD	VC115 Single Stage (Cooling)	55.11

The iGrow 400/800 environmental controllers are designed specifically for easy transition in existing greenhouses using thermostats or early-generation controllers, while providing advanced control capabilities – all at an affordable price point. The unique energy-use monitoring system gives growers real data on energy used by individual pieces of equipment for heating and cooling systems, showing energy cost savings. This is something thermostats or other controllers cannot do.

ENTRY-LEVEL CONTROLLER - ADVANCED CONTROLS

Link4 has designed this controller series to suit the needs and budgets of growers interested in a simple system to manage energy costs and provide detailed performance data for intelligent crop management. The controllers have an optional integrated relay panel for simplified installation into new or existing greenhouses. Because the controllers rely on software controls, rather than cumbersome hard wiring, the system is extremely flexible and adaptable.

The iGrow 400/800 controllers offer more advanced control over a wider range of equipment, such as: * Exhaust fans * Pad Pumps * Pad Louvers *HAF Fans *Fan Jets *Unit Heaters *Perimeter Heating Systems * Other equipment Each piece of equipment's complete operating history is recorded for easy transfer to the grower's computer by USB drive, network, or remote access via computer or cell phone.

PLENTY OF COMMUNICATIONS OPTIONS

The optional communication module plugs into the iGrow800 for direct networking to PCs to remote control your greenhouse from any distance. Also included with the communications module is the ability to interface directly to smart cell phones for remote monitoring and control.

INTEGRATED CONTACTOR PANEL – 4C

Many people, especially those who just purchased their first greenhouse environmental control system, don't realize that they cannot connect a high voltage piece of equipment (e.g. an exhaust fan) directly to their electronic controller. The proper method to switch high voltage to a motor on is to use a high quality contactor. The contactor should be sized accordingly to meet the load required by the motor and to meet the local and national electrical code. It should be noted that for many motors, the use of relays instead of contactors is strongly discouraged because of the high current surges and voltage spikes associated with such inductive loads. The relays will most likely fail prematurely.



Shown with neoprene closure, available upon request.

Description	Price
iGrow 400	\$595.00
iGrow 800	695.00
OPTIONS & ACCESSORIES	
VC Option (Vents & Curtains support)	50.00
S option price (Remote Access support)	125.00
Digital Temperature & Humidity Sensor	195.00
CONTACTOR PANELS	
4 Contactor Panel* 18Ax2+12Ax2	495.00
4 Contactor Panel w/ power cord & plugs*	595.00
8 Contactor Panel* 18Ax3+12Ax3+10Ax2	695.00
8 Contactor Panel w/ power cord & plugs*	795.00
Controller sold separately. Factory pre-mounted & pre-wired.	



Maintaining the Climate for Growth

STEP® 50A & STEP® 500 ENVIRONMENTAL TEMPERATURE CONTROL SYSTEMS



STEP® 50A

Wadsworth's **STEP 50A** and **STEP 500** control systems make greenhouse temperature control easy. Just connect your heating and cooling equipment to a STEP control, and you're on your way to a simple, total environmental program that puts you in the driver's seat - no more "dueling thermostats" that have fans and heater running at the same time.

The **STEP 50A** is the sensible choice for greenhouses under an acre with one or two vents. With its three cooling stages, you can easily integrate three stages of fan, and a vent that opens and closes in three steps. The **STEP 50A** provides two stages of heating, letting many owners use only half their heat in mild weather.

For growers with larger environments or more equipment, Wadsworth offers the **STEP 500**. It adds two more cooling stages, an additional stage of heat. The **STEP 500** includes advanced features not found in the **STEP 50A** - an outdoor sensor provides anticipation for heating stages when the weather changes, and an outdoor thermostat lets you selectively lock out cooling on cold nights. And, the **STEP 500** includes a temperature display that constantly reads out the temperature from the aspirated sensor module where the controller reads the greenhouse air temperature.



STEP® 500

STEP® 50A & STEP® 500 FEATURES:

- Independent day and night temperature settings.
- Programmable cooling lockout disables all or part of your cooling at night.
- **Step® 50A** - two stages of heating and three stages of cooling
- **Step® 500** - three stages of heating and five stages of cooling, save energy and adapt to sophisticated modern greenhouses.
- Provides a modulating output voltage for proportional steam and hot water valves.
- After a power failure, all equipment is off, then comes on gradually to control temperature.
- All stages have a color coded manual override switch and a pilot light.
- Includes an aspirated temperature sensor to read true air temperature.
- Includes a 10 Amp DPDT load relay for each stage.
- Locking door secures your settings.
- Corrosion resistant anodized aluminum cabinet (**Step® 50A** - 16" x 16" x 5"; **Step® 500** - 22" x 16" x 5").

ADDITIONAL FEATURES FOR THE STEP® 500:

- Digital meter shows greenhouse temperature.
- Includes an outdoor module to anticipate heating needs as weather changes.

The STEP 50A and STEP 500 controllers are ready to control most any heating or cooling equipment, right out of the box.

- Exhaust Fans
- Motorized Louvers
- Automatic Vent Openers
- Gas, Steam & Hot Water Unit Heaters
- Steam & Hot Water Valves
- Jet Fans and Horizontal Air Flow Fans
- Cooling-Pad Pumps

Call for further information and pricing.



SENSAPHONE® REMOTE MONITORING SOLUTIONS

SENSAPHONE®
Remote Monitoring Solutions

An unexpected disruption in the greenhouse environment could be detrimental. A Sensaphone alerts you of changes in your greenhouse so you can protect your greenery, and prevent costly damages.



The Sensaphone has a built-in ability to monitor for temperature, humidity, power failures, threatening conditions and much more, as soon as it occurs. It will continue to make phone calls until someone responds to the call. The voice messages can be custom recorded, so you get to describe each alarm in your own voice. The phone interface includes a line seize feature so that extension phones are automatically disconnected when it needs to make an alarm phone call. Even if no event is occurring, you can check on your remote site at anytime with one simple phone call.

For small businesses, property owners, and more, the ALL NEW Sensaphone 400 offers an easy, inexpensive way to monitor a remote facility. It can be installed in any clean indoor environment to monitor a variety of applications, with four external inputs & can contact up to four phone numbers. When you need to monitor additional conditions, or need to notify more people, the 800 is the best choice. With eight external inputs &

can contact up to eight phone numbers.

Do you want to avoid wiring hassles? Our 2800 system with wireless sensors can monitor over a widespread area through a single unit.

FEATURES:

- Control a dual setback thermostat to change the temperature remotely
- One of the external inputs already comes with a temperature sensor for monitoring temperature where the 400/800 is installed
- Includes nonvolatile memory and a 24-hour battery backup with user installed batteries.
- They can even call you, fax you, page you and even more!!

Stock No.	Description	Price
190-8S1000PH	Sensaphone 400	\$355.50
190-8S1001PH	Sensaphone 800	535.50

REMOTE TEMPERATURE SENSOR

These small temperature probes are good general purpose devices for indoor/outdoor applications. They include a sensitive temperature element in a stainless steel housing with a moisture resistant seal. A convenient mounting clip and 12' of wire are included. The sensors are accurate to +1°F (0.56°C) and have a sensing range of -40°F to 175°F. Dimensions: 2" long x 0.25" diameter.



TEMP-ALERT TA-1

High/low temperature electrical contacts allow for easy adjustment of temperature limits from -30 to +130 degrees F. If temperature change causes indicator to touch one of the limit arms, it completes a circuit which is used to trigger on an alarm. Use with Sensaphone.



Stock No.	Description	Price/Each
190-7FGD0101	2.8K Weather Proof Temperature Probe	\$30.00

Stock No.	Description	Price/Each
190-7HI-LOTA	High-Low Temp-Alert TA-1	\$65.00

Call for pricing on Infrared Motion Detector and Water Level Sensor.

