



**BARTLETT**  
INSTRUMENT COMPANY

# Bartlett Greenhouse Controllers

## Controller Features

- Two zones of control allows for 2 greenhouses or 2 zones within a greenhouse to be controlled
- The 2 zones provide for 2 stages of heat set points, 2 Horizontal Air Fans (HAF) and 4 cooling set points
- The controllers can be wired to allow 1 HAF to be automatically turned off within each zone when the second stage of cooling is activated
- There is a cycle timer that allows on/off control of irrigation, misting or lighting. The misting cycle allows for settings in seconds on and minutes off
- DIF, DAY and NITE settings provide programming the start times and set-point temperatures of each stage
- A program can be set-up for vent stage control for dehumidification based on time or for automatic control with the optional humidification package
- There is also an alarm output that can trigger a bell or Sensaphone when the greenhouse temperature becomes too high or low or power loss is experienced
- The LED display features a large 4-digit display
- The durable plastic enclosure is sealed for moisture resistance
- Programming is easy with the provided instructions
- The controller has a built in 24-hour clock and memory with battery backup. A 10 year battery is installed for clock memory. Informational data is stored in non-volatile memory, assuring no loss of programming occurs during a power outage
- Statistics are collected for the previous 7 days of operation and viewable at the controller
- There is an adjustable override of temperature settings
- There are two temperature sensors provided that can be placed up to 500' from the controller
- The controller comes with UL listed 50VA transformer. The controller can be powered by 120, 208 or 240 VAC. The output is 24V AC
- An optional humidity sensor can be installed to sense and record humidity



### Models GHK12X2C and GHK12X2CH

- The models GHK12X2C and CH allow for the programming of proportional control of vents or curtains

### Models GHK12X2H and GHK12X2CH

- The models GHK12X2H and CH provide additional heating control such as for bench heating. Up to 4 probes can be wired to these 2 controllers



## Easy Wire



**SHIPPED FOB: Iowa**

- The Easy Wire provides easier installation and efficient trouble shooting and repair in case of problems. It is a pre-wired relay box with GHK 12x2 controller that is connected by a 9' cable
- The box measures 12" x 18"x 6" and houses the transformer, four 30-Amp relays, and DIN rail mount terminal blocks for easy connection of power and equipment.

- Easy Wire cabinet is not UL approved

Controller Models	HEAT Steps	COOL Steps	Curtain/Vent Proportional Output	Auxiliary HEAT	Catalog Number
GHK12X2	2	4			29-50200
GHK12X2CH	2	4	1		29-50210
GHK12X2H	2	4		1	29-50220
GHK12X2CH	2	4	1	1	29-50230

## Computer Inter-Face System (CIS)

- The CIS system allows the grower to monitor and program up to 50 controllers from a personal computer.
- Allows the collection of temperature, humidity and equipment use.
- Connects a computer using USB port



## Optional Equipment

Model	Description	Catalog #
Easy Wire	Relay Box & Cable	29-50250
GHKCIS1	CIS-Computer Interface	29-50260
RT10K4.4	Extra Thermistor	29-50270
HUM1	Humidity Probe	29-50280
KT8451-100	100' cable for thermistor	29-50290
KT8451-500	500' cable for thermistor	29-50310
KT8451-1000	1,000' cable/thermistor	29-50320

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