

GCH-140 Gas Cylinder Heater Controller

Overview

The GCH-140 Gas Cylinder Heater Controller is used with the GCH series sample cylinder heaters. The controller monitors the heater's temperature sensors to determine the cylinder's temperature and maintain the cylinder at the set temperature. The GCH-140 set temperature is 140 degrees fahrenheit. Power for the controller is provided by a vehicle 12 volt cigarette lighter or standard 12 volt DC power point connection.

⚠ WARNING

- Do not apply power to the controller in hazardous locations.
- Do not connect the controller to the heater in hazardous locations.

Operation

To use the controller plug the power connector into a standard vehicle power point and connect the 3-pin plug to a GCH heater. The controller will detect that the heater is attached and apply power to the heaters while monitoring the cylinder temperature. When a heater is not connected, the controller switches to a low power mode until a heater is again detected or attached.

Refer to the GCH heater manual for details on using the GCH controller with the GCH heater.

Error Codes

- E1 - The connected heater was detected but one or more temperature sensors is not responding.
- E2 - An excessive difference in temperature readings between heaters. Possibly a bad heating element.

Specifications

Temperature Set.....	140°F (60°C)*
Operating Voltage.....	10 to 16 Volts DC
Power Connector....	Standard 12V Cigarette Lighter Plug
Cable Length	6 Feet
Display.....	4-Character LED
Operating Temperature.....	-40° to +140°F (-40° to +60°C)
Humidity.....	0 to 95% (non-condensing)
Weight	5 oz.

*Contact 2KC Solutions for other temperature set values



Maintenance

If the connectors need to be cleaned, use an electronics contact cleaner that leaves no residue and that does not harm plastics.

Controller Fuse Replacement

In normal operation the fuse, located in the 12 volt power plug, should never need to be replaced. To replace the fuse - squeeze in the side contacts while unscrewing the cap at the end of the power plug. Pull the fuse out of the power plug. Replace with a 10 amp 3AG type fuse.

A blown fuse is usually an indication of a major malfunction. If your system is blowing the fuse please return it for service.

⚠ IMPORTANT

The controller will maintain the cylinder set temperature as long as power is supplied.
Unplug from the power source when not in use.

Limited Warranty

2KC Solutions, LLC warrants this unit against defects in materials and workmanship for a period of one year from the date of shipment. 2KC Solutions, LLC will, at its option, repair or replace equipment that proves to be defective during the warranty period. This warranty includes parts and labor.

A Return Materials Authorization (RMA) number must be obtained from the factory and clearly marked on the outside of the package before equipment will be accepted for warranty work.

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Service

The GCH-140 has no field serviceable components. For service please contact your distributor listed below for a Return Materials Authorization number (RMA).

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