

# 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 regulate the heaters to maintain the cylinder at the set temperature. For the GCH-140 the 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.

## Operation

To use the controller simply connect the GCH heater and turn on the power switch. The controller will monitor the cylinder temperature and control the heaters to keep it at the set temperature. Refer to the GCH heater manual for details on using the GCH controller with the GCH heater.

### ⚠ WARNING

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

### ⚠ IMPORTANT

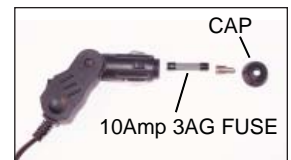
The controller will maintain the cylinder set temperature as long as power is supplied. It will not turn off automatically.

## 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, unscrew the cap at the end of the power plug and then pull the fuse out of the power plug. Replace with a 10 amp 3AG type fuse. **IMPORTANT:** a blown fuse is usually an indication of a major malfunction. If your system is blowing the fuse please return it for service. Refer to the service section in this manual for details.



## 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

## **Limited Warranty**

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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**

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

Microflex, LLC  
2202 Red Bird Lane  
Brookshire, Texas 77423

Phone: 281-855-9639  
Fax: 832-422-4391  
[www.microflx.com](http://www.microflx.com)