

# GCH-LP-120

## Gas Cylinder Heater Lab Power Supply

### Overview

The GCH-LP-120 Gas Cylinder Heater Lab Power supply is used with the GCH series sample cylinder heaters. In addition to providing power for the heaters, the GCH-LP-120 controller monitors the heater's temperature sensors to determine the cylinders temperature and regulate the heaters to maintain the cylinder at the set temperature. The setpoint temperature can be easily adjusted using front-panel pushbuttons.

### Operation

To use the GCH-LP-120 simply connect a GCH heater using the included cable and turn on the power switch. The GCH-LP-120 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.

### Changing the Temperature Setpoint

To change the temperature setpoint simple press and release one of the buttons. The current setpoint with an "s" in front of the value will be displayed. The top button can then be used to increase the setpoint and the bottom button reduces the setpoint. Each button press will change the setpoint by 1 degree. To save and use the new value simply wait 5 seconds. The controller will return to the temperature display and the new setpoint will be used as well as saved for future use.

### Maintenance

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

### Fuse Replacement

In normal operation the fuses, located on the GCH-LP back panel, should never need to be replaced. There is a separate fuse for the AC supply and heater power. The heater power fuse is inside the round fuse holder. It should be replaced with a 10A 5.2 x 20mm fast acting fuse. The AC supply fuse is inside the power connector housing and should be replaced with a 1.6A 5.2x20mm fuse. A spare AC fuse is included in the fuse holder.

**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 Range .....	60°F to 160°F
AC Supply.....	100 - 240VAC, 50/60Hz
Heater Power.....	12 VDC, 10A (Fuse Limited)
Heater Cable Length .....	6 Feet
Display.....	4-Character LED
Operating Temperature.....	-13° to +140°F (-25° to +60°C)
Humidity.....	10 to 95%RH (non-condensing)
L x W x H .....	9.7" x 2.2" x 5.3"
Weight .....	2 Pounds
Supply Fuse.....	1.6A 5.2 x 20mm
Heater Fuse.....	10A 5.2 x 20mm

#### ⚠ 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.

## **Limited Warranty**

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Microflex, LLC warrants this unit against defects in materials and workmanship for a period of one year from the date of shipment. Microflex, 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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For service please contact your distributor listed below for a Return Materials Authorization number (RMA).

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2202 Red Bird Lane  
Brookshire, Texas 77423

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Fax: 832-422-4391  
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