

MSA Chillgard® LC Control Module

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Control modules communicate with multiple sample points from refrigerant monitors through RS-485 communications. Modules remotely display gas concentration, alarm status, calibration and fault diagnostics.

Get MSA's Chillgard L Series under your control.

Features

- Expandable: configurable with up to 8 Chillgard LS Sensor module points of detection
- Water- and corrosion-resistant enclosure
- Easy to use: 20-position LCD display with 4-button keypad
- 4 internal relays: FAULT and 3 ALARM levels
- Beacon option
- 85 db piezo horn; with 100 db option
- Analog outputs: 0-10 V (point identification) and 4-20 mA
- Serial output: RS-232 with data logging
- Transformer version available for powering multiple remote sensors



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Typical chiller configurations and Chillgard L Series solutions

Figures 1-3 illustrates three possible configurations for Chillgard LS and Chillgard LC Systems. Other configurations are possible. Contact your trained MSA sales associate for help in configuring the system of monitors and controllers to meet your needs.

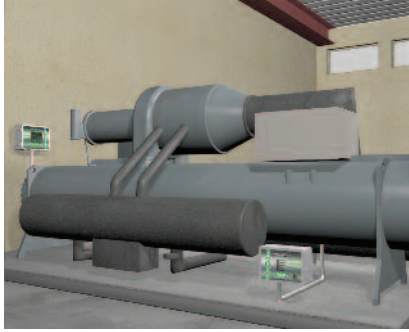


Figure 1: A single chiller located in the mechanical room. Chillgard LS Monitor is located near the floor for detection of the refrigerant gas. Chillgard LC Module is located at eye level providing gas concentration and alarm indication.

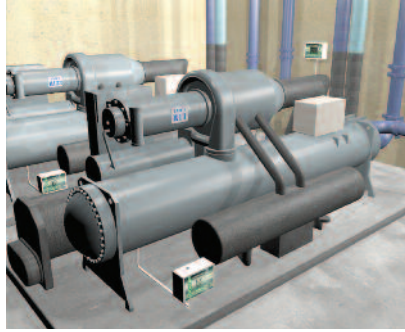


Figure 2: Two chillers containing different refrigerants requiring only one sample point each. Refrigerant-specific Chillgard LS Monitors are located near the chiller with the refrigerant of interest. LC Control Module provides monitor-specific information for both Chillgard LS Monitors.



Figure 3: Chillgard LC Control Module is located outside of mechanical room providing entry way signaling and control of Chillgard LS Monitor located inside of room.

Typical Specifications:

Input power:	24 VAC/DC standard, 110 VAC/220 VAC 50/60 Hz optional
Powering remote sensors:	110/220 VAC unit can power Chillgard LS Sensor from up to 100 feet. A 110/220 VAC transformer unit can power up to 5 Chillgard LS Sensors
Operating temperatures:	0 to 40° C (32 to 104° F)
Non-operating temperatures:	-40 to 60° C (-40 to 140° F)
Relative humidity:	0 to 99%
Output:	0-10V and 4 to 20 mA analog and RS-232 with data logging
Relays:	4 form C SPDT, 8 amps at 240 VAC
Physical:	7.1" high x 10" wide x 4.25" deep, transformer version: 14.7" high x 11.2" wide x 5" deep
Weight:	5.5 lbs.
Transformer version:	8.4 lbs.
Warranty:	2 years

Accessories

Unit mounted strobe	634674
Remote light towers	Call 1-800-MSA-INST
Calibration kits	Call 1-800-MSA-INST

Ordering Information

A Chillgard LC Monitor ATO form is available in the MSA Preferred Products Catalog. Call 1-800-MSA-INST (1-800-672-4678) to obtain a copy of the MSA Preferred Products CD.

Chillgard L Series Communication

- Chillgard LC and LS Modules communicate over a twisted pair RS-485
- Chillgard LC Control Module recognizes each sensor module
- System is expandable; more sensor modules can be added to RS-485 network later
- Chillgard LC Module detects communication loss with sensor modules
- Low voltage power and signal wiring can be run together from Chillgard LC Module to LS Module
- Output options of Chillgard LC and LS Modules give tremendous flexibility when used in conjunction with a building automation system.

Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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