

Greenhouse control made simple through the most advanced technology available. A completely integrated hardware and software system that is modular - making GEMLink the most flexible and adaptable system on the market. The computer interface is logical and easy to use putting the user in complete control of your investment. QCOM Controls has a complete line of sensor units and probes available for use with your GEMLink system. These sensors are specifically designed for use in harsh greenhouse environments and the GEMLink system can be customized to accept a variety of sensor probe types.

GEMLink / QLink System

QCOM engineers design innovative greenhouse automation and control systems for optimal crop performance and maximum cost savings.

QCOM reduces greenhouse operation costs by efficiently managing all of your equipment. For the last 25 years, QCOM has worked with growers and universities to make the best greenhouse control software possible.

The result is GEMLink; the most detailed and versatile greenhouse environmental control program available.

The GEMLink system represents the "state of the art" in computerized greenhouse control systems. You will quickly recognize substantial improvements in quality control and energy conservation.

Consider just some of the advantages of the GEM-Link System.

GEMLink is EASY TO USE. Even for the computer novice, just point-and-click through the interface to monitor and control your entire greenhouse automation system.

GEMLink is MODULAR. The hardware is easy to install, inexpensive to expand and simple to troubleshoot and repair. Customization is part of GemLink's modularity, so you save money by buying fewer pieces of specialized hardware.

GEMLink is FLEXIBLE. You are in control because you know what is best for your own greenhouse. For this reason, we make GEMLink software flexible and user-configurable. You are not restricted by systems designed for "everyone else's" greenhouse.

Software

GEMLink runs on the latest Windows® operating system and currently available computer hardware with all of their built-in features and enhancements. EVERYTHING is easier to do in GEMLink, from installing a printer to accessing the Internet! Networking is also easy with GEMLink.

GEMLink 5 supports our latest hardware platform, QLink, with its high-speed communications. Windows®, context-sensitive HELP system is included, putting valuable information just a mouse-click away! Backup and restore to or from ANY drive in your Windows® system – including the new FLASH MEMORY cards that plug into a USB port!



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Hardware

GEMLink's hardware is also new. With more powerful and efficient Motorola microprocessors, GEM-Link can retain programmed logic to control a series of tasks flawlessly.

QLink Commander Units come in a wide variety of designs to fit virtually every control need within your greenhouse environment. QLink Commander Units are housed in weatherproof fiberglass enclosures to ensure reliability and longevity. The modular design of these units saves you time and money, and makes expanding the system easy and inexpensive.

Sensing Device Commanders - independent on/off control of up to eight on-off devices, like fans, heaters, pumps, and CO2 equipment.

Sensing Proportional Commanders - independent control of up to four vents, curtains, and mixing valves for hot or chilled water.

Sensing Timing Commanders - for precise timing jobs like irrigation, fog or over-bench mist.

New QLink 8x8 offers true local loop control.

Comprehensive, robust software and hardware for integrated greenhouse control.

Key Control Features:

- Temperature
- Humidity
- Shading
- Energy Conservation
- Scheduled Overrides
- Pesticide Applications
- Photoperiod Lighting
- Supplemental Lighting
- CO2
- Irrigation & Fertigation
- Conditional Control
- Power Management

ADDITIONAL FEATURES

Anticipatory Heating and Cooling

GEMLink provides an efficient and precise control by comparing indoors conditions and weather station readings. The system commands the heating and cooling equipment for optimum system environment control. If the outdoor temperature, light, wind speed or humidity change, the program adjusts automatically in anticipation of the effect on indoor temperature when programmed.

Conditional Control

The powerful ability to write your own logic statements, to bring custom control to your operation. The easy-implemented program allows for ultimate flexibility and simple exceptional control.

Advanced Irrigation Functions

VPD, Evapotranspiration, and Irrigation Queues provide advanced irrigation function and control. These precise methods allow for strict water function capabilities and for the ultimate in irrigation strategies and run-off control. Group irrigation program makes setting up large numbers of irrigation valve programs quick and easy.

Fertilizer Controller

This local controller provides control over the pH and EC of irrigation water as it travels to the crop. There are automatic shut-down limits stored in the controller to protect your crop in case there is a valve malfunction or error in mixing the solution. There are also no-flow and shutdown alarms for cases of pump or other water-source failure.



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