

MC600 Multi-Channel Controller



The Total Monitoring Solution
for Toxic and Combustible Gas



GENERAL MONITORS
Protection for life.

MC600 Multi-Channel Controller



Flexible Modular Design

- One to six channels of continuous toxic and combustible gas monitoring in a compact, rugged controller designed for general-purpose or Class I, Division 2 hazardous environments.
- Compatible with all of our catalytic bead and H₂S gas sensors and over 20 of our fixed-point gas detectors.
- Modular, plug-in signal cards provide system scalability—from simple local systems to large plant-wide distributed systems.
- MODBUS protocol offers complete status and control via RS-485 serial communication.
- Six user configurable 8-Amp relays for applications flexibility, with full zoning and voting capability.
- Easy wiring and installation with removable terminal blocks.
- Fast set up with all detector information preloaded and stored onboard.
- Individual Large LCD channel displays, LED indicators and keypad.

Intelligent Modular Control System

With an advanced microprocessor design, the modular MC600 Multi-Channel Controller from General Monitors sets a new industry standard for flexibility and economy in toxic and combustible gas monitoring systems. The six-channel MC600 offers continuous gas monitoring with either our basic H₂S and hydrocarbon gas sensors or our intelligent gas detectors—the Models S4000C/S4100C combustible, IR2100/IR5000 infrared, S4000T/S4100T H₂S, IR7000 carbon dioxide, TS4000/TS400 toxic gas and TS420 oxygen deficiency detectors.

Low Cost Per Point Safety

Due to its smart design, the MC600 Multi-Channel Controller, when configured with our highly reliable MOS H₂S gas and our catalytic-bead combustible gas sensors, provides a breakthrough in economical safety monitoring systems. The result is a high-performance, low cost per point safety monitoring system that is easy to install with a long life, reducing safety system life cycle costs and offering an attractive return on investment.

The highly scalable MC600 Multi-Channel Controller can be configured as either a local gas detection

system, or it can be networked to provide a large plant-wide distributed safety system. Up to 127 MC600 Controllers can be linked to monitor 762 points. Designed with dual RS-485 serial communications, the MC600 is MODBUS compatible. It features six user configurable relays and up to three zones with selectable zoning and independent voting.



Modular design allows for various configurations with plug-in versatility.



Applications

With its modular design flexibility, scalability and economy, the MC600 Multi-Channel Controller supports applications within a wide range of industries:

- Oil/Gas Production Facilities
- Oil/Gas Refining Plants
- Chemical Processing
- Wastewater Treatment
- Petrochemical
- Electric Utilities
- Compressor Stations
- Pulp & Paper Mills
- Steel Mills
- Sulfur Recovery Plants

Popular MODBUS Communications

Easy Set-Up

All detector and gas table information is preloaded and stored on the MC600 Multi-Channel Controller at the factory to simplify set-up. Pluggable terminal blocks make wiring and interconnections a fast process. Easy to read LCD modules, LED indicators and keypad controls offer an intuitive operator interface, along with the popular MODBUS protocol.

Rugged Housing

The MC600 is housed in a fiberglass, Type 4X cabinet that can be wall-mounted in a safe (non-hazardous or Class I, Division 2 hazardous) area with an optional onboard power supply. Signal conditioning boards for H₂S/hydrocarbon sensors and a 4-20mA interface for smart detectors are easily installed or removed from slots.

Display Features

The MC600 features six backlit LCD modules that each have two lines, with eight-characters per line. Large multi-colored LED Ready, Alarm, Warning and Fault indicators (that are daylight readable) supplement the LCD digital displays, and keypad controls are provided for setup, calibration and gas reading functions, and self tests.

Configurable Relays

The MC600's six auxiliary 8-Amp relays are user-configurable to activate external devices such as a horn and/or beacon on any of the six channels' alarm or warning set-points. They feature independent user-configurable options: zoning, warn, alarm LO or alarm HI activation set-points, energized/de-energized, latching/non-latching and timed delay. There is one common 8A fault relay, which activates upon any system or individual channel malfunction and can be configured to activate/de-activate during setup and calibration.

Agency Approvals

CSA, CE Marking approved.





Global Service Anytime, Anywhere

No matter where you are, 24-hour technical service and support is available from General Monitors. The company has two manufacturing and six sales and service facilities strategically located for efficient support worldwide.

- Lake Forest, California
- Houston, Texas
- Republic of Ireland
- Singapore
- United Arab Emirates
- United Kingdom

Quality Commitment

General Monitors brings a respected reputation for quality and reliability to the gas detector market. The company is ISO 9001:2000 certified, utilizing continuous process improvement (CPI) quality programs.



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