GENERAL MONITORS

Protection for life.

MODEL MC600

Multi-Channel Controller

Features

- One to six channels of continuous monitoring
- Dual Redundant Modbus Communications
- Removable terminal blocks
- Six user configurable 8A relays
- Modularity (plug-in signal input cards)
- Up to 3 zones with independent voting and relay configuration
- Preconfigured from factory per customer requirements

Benefits

- Highly configurable
- Provides complete status and control capability
- Ease of installation and wiring
- Drive a combination of horns, beacons
- System expandability, simplified maintenance
- Application flexibility
- Saves installation time with minimum setup required

Description

The Model MC600 is a microprocessor-based multi-channel controller that provides six channels of continuous gas detection. It is compatible with General Monitors' hydrocarbon sensors, H_2S sensors, all versions of our combustible & H_2S intelligent/smart sensors, IR400, IR5500, IR700, TS4000H and Gassonic's Observer-H and Surveyor. It provides a front panel user interface including six independent LCD channel displays and keypad for setup, calibration and gas reading functions as well as ready, alarm & fault indicators. The MC600 also provides dual-RS485 serial communication utilizing Modbus protocol.

The MC600's modular design allows for a variety of configuration options. It provides local alarm indication as well as common/discrete relay contacts. The design incorporates the use of a custom display to provide channel status and a user setup interface.

The MC600 provides six user configurable auxiliary relays. The relays can be configured to activate on any of the six channel's alarm high, alarm low or warn set points for use with external devices such as a horn and/or beacon. These relays have the following independent user configurable options: common warn or alarm activation set point, discrete channel alarm activation set point, energized/de-energized, latching/non-latching and an adjustable timer from 1-120 minutes. The units' front panel has six individual backlit LCD channel displays and warn and alarm daylight readable LED indicators. The MC600 provides one common fault relay, which activates upon any system or individual channel malfunction. This relay has two user selectable options, activated/de-activated during setup or cal mode operation.

The MC600 provides a user selectable zoning and voting feature as well. The system is capable of providing up to three zones of which single or dual voting may be selected.

Applications
- Compressor Stations
- Food & Beverage
- Petrochemical Plants
- Pulp & Paper Mills
- Refineries
- Steel Industry
- Utilities
- Wastewater

MODEL MC600

System Specifications

Compatible Products: General Monitors Models S4000CH, S4100C, catalytic bead sensors, S4000TH, S4100T, H_2S MOS sensors, TS4000H, IR400, IR700, IR5500, IR4000M

Gassonic Models Observer-H & Surveyor

Channel Indicators: 6 2-lines x 8-character backlit LCD modules

System Indicators: Ready (green), Fault (yellow), Warn (red), Alarm (red) (adjustable intensity)

Front Panel Switches: Accept, Mode, Reset, Enter, ↑, ↓, Display Setup

Alarms: High, Low, Warn per channel

Tests: Display and Card

Channel Inhibit: Yes

Zones: Zones 0-3

Voting: Single or dual per zone

Options: 115/230 VAC power supply, 95 db Horn, remote front panel keyboard

Electrical Classification: General Purpose Class 1, Div. 2

Warranty: Two Years

Approvals: CSA, CE Marking

Environmental Specifications

Temperature Range: -4°F to 140°F (-20°C to 60°C)
with power supply 14°F to 140°F (-10°C to 60°C)

Storage Temperature Range: -40°F to 158°F (-40°C to 70°C)
with power supply -4°F to 158°F (-20°C to 70°C)

Humidity: 0 to 95% RH, non-condensing
with power supply 20 to 90% RH, non-condensing

Electrical Specifications

Input Power: 24 VDC (20-36 VDC) - Std.
with power supply 115/230 VAC, 50-60 Hz

Channel Input Resistance: 4-20mA card, 25 ohms

Output Power: 4-20mA card, .5 Amp 24 VDC instrument power

Relays: 6 SPDT - 8A @ 120/230 VAC, 30 VDC per relay, programmable via zoning, 1 SPDT Fault relay

Relay Options: State (Energized/De-energized), Mode (Latching/Non-Latching), Timed (1-120 minutes)

RS-485 Output: Dual redundant Modbus RTU

Mechanical Specifications

Housing: Corrosion resistant, Type 4X, UV stable fiberglass, stainless steel hinges, lockable latches, and four conduit entry holes

Dimensions: 15.5" x 13.3" x 6.7" (395mm x 339mm x 171mm)

Weight: 12.75 lbs. (standard) 14.7 lbs. (with power supply)

Mounting Holes: Four 0.32" corner mounting holes suitable for $1/4$-20 bolts

Specifications subject to change without notice.

Represented by: