4000 Series

Control Panel

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Control Panel

- Complete controller package available in single channel or 1-4 channel configurations
- Intuitive push button operation
- 4-20 mA input standard (factory configurable to 0.2-1 mA)
- Three user adjustable alarm points
- User adjustable alarm hysteresis
- Rugged metal housing

- Easy installation
- 4 relays (3 alarm and 1 fault)
- Factory configured alarm functions include:
  - Latching/non-latching
  - Resettable/non-resettable
  - Time delay
  - Rapid rise alarm for combustible setups
- Local display, horn and strobe

GfG Instrumentation

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4000 Series Control Panel

The GfG 4000 series is a compact and versatile control panel. Control panels may be configured with up to 16 channels of monitoring.

GMA 40 Controller Modules

At the heart of the 4000 series panels is an array of up to four GfG GMA 40 mini controllers. The GMA 40 mini controllers are highly configurable and are available in two versions:
GMA 41: Single channel
GMA 44: Four channel

Each GMA 40 may be configured to one of any available GfG gas transmitter. The 4000 series control panels may be configured with any four GMA 41/44 mini controllers.

Display

Each GMA 40 series controller features a numeric display for direct reading of gas concentrations or values from the transmitters connected.

Alarm Points

Each of the three alarms in each mini controller module can be adjusted separately. The alarm points may be set to any value within the detection range and are field adjustable. Each alarm function may also be programmed to be latching or non-latching, and resettable/non-resettable.

Alarm Relays

Each mini controller module is equipped with 4 relays. Three are independently triggered by the programmable alarms and one is for the indication of a fault. The relays may be used to control external devices, such as lights, horns, valves, phone dialers, etc.

Horn/Strobe Alarms

Each 4000 series controller is equipped with a combination horn and strobe. The loud horn (84 dbA @ 10 feet per UL464) makes it ideal for environments where background noise may be present.

Additional Features

Each GMA 41 mini controller installed in a 4000 series control panel also includes a 4-20 mA signal output.

Enclosure

The 4000 series control panels are housed in a one foot square metal housing. Some configurations additionally include an auxiliary case mounted enclosure for the power supply and horn/strobe.

The enclosure is less than 3.75" (95 mm) thick allowing it to be install with little protrusion almost anywhere.
Each enclosure comes standard with security lock.

Specifications

Gases
Depending on transmitter:
Combustible / explosive
Toxic gases and vapors
Oxygen

Detection range
Depending on requirements:
% LEL, % volume, ppm

Models
4100 - 1 channel
4100-2 - 2 channels
*4100-3 - 3 channels
*4100-4 - 4 channels
4400 - 4 channels
4400-2 - 8 channels
*4400-3 - 12 channels
*4400-4 - 16 channels
4000-1400 - 5 channels
*4000-1140 - 6 channels
*4000-1114 - 7 channels
*4000-1440 - 9 channels
*4000-1144 - 10 channels
*4000-1444 - 13 channels

Dimensions
12.5x12.5x6 inches (318x318x153 mm) (HxWxD)
*(Additional box adds 11" to height)

Power Supply
Integrated 24 VDC
$_c$UL$_{USA}$

Input Signal
4 - 20 mA

Output Signal
1 output for each GMA 41

Alarms
3 alarm points
User adjustable within the detection range

Alarm Functions Available
Exceeding / descending
Latching / non-latching
Resettable / non-resettable
Hysteresis adjustable
Delay-time 0 to 2 minutes
Alarm thresholds completely adjustable
Alarm allocation (4400)

Display
3-digit LED display
1 LED green - operational status
1 LED yellow - fault
3 LED red - alarm

Relay outputs
4 voltage-free relays for alarm and fault
Normally closed contact (NC)
Normally open contact (NO)
Load: 250 VAC, 4A

Function Keys
Push-button operation for functions, like alarm points, calibration, function test and relay test

Optional Accessories
Alarm reset switch

ATEX Certificate (GMA 41)
` II (2) G BVS 03 ATEX G 005 X

Warranty
Three years from date of purchase

Specifications subject to change without notification

Distributed by:

GfG Instrumentation

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