smart
GasDetection
Technologies

4000 Series Control Panel

Compact and versatile

GfGsafety.com/us-en

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Compact and versatile

GMA 40 Controller Modules

At the heart of the 4000 series panels is an array of up to four GfG GMA40 mini controllers. The GMA40 mini controllers are highly configurable and are available in two versions:

GMA41: Single channel
GMA44: Four channel

Each GMA40 may be configured to one of any available GfG gas transmitter. The 4000 series control panels may be configured with any four GMA41/44 mini controllers. Control panels may be configured with up to 16 channels of monitoring.

Display

Each GMA40 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 four 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 and 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 GMA41 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 inch (95 mm) thick allowing it to be install with little protrusion almost anywhere.

Each enclosure comes standard with security lock.

Technical Data: 4000 Series

Gases:
Depending on transmitter.
Combustible / explosive, toxic gases and vapors, oxygen (O_2)

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

Input signal: 4-20 mA

Output signal: 1 output for each GMA41

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

Power supply: Integrated 24 V DC
$_C UL_{USA}$

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

Function keys:
Push-button operation for alarm points, calibration, function test and relay test

Alarms:
3 alarm points
User adjustable within detection range

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

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

Optional accessories: Alarm reset switch

Approvals / Certifications:
ATEX Certificate (GMA41):
II (2) G BVS 03 ATEX G 005 X

Warranty: 3 years from date of purchase