

# GasGard XL

Setting Standards of Excellence in Gas Monitoring



*MSA's GasGard XL is a Multi-Channel Wall Mount Controller for monitoring toxic, oxygen and flammable gases in industrial plants. Due to its inherent versatility and ease of use, GasGard XL provides protection from potentially hazardous conditions in a variety of working environments and for virtually all health and safety applications.*

*Because every life has a **purpose...***

# Setting Standards of Excellence in Gas Monitoring

GasGard XL offers reliability in a compact and robust wall mounted housing made from fire retardant ABS material grade.

The large, easy-to-read, multi-language LCD graphic display allocates real time information on target gas levels and events, allowing full system diagnosis, supported by individual LEDs per channel, relays and internal buzzer.

GasGard XL can be easily configured to accept up to eight remote gas sensors, depending on the number of individual plug-in input cards installed.

With two alarm levels per channel GasGard XL operates in conjunction with MSA's well-proven remote gas sensors (flammable and toxic or oxygen 4–20 mA) as well as with catalytic gas sensors.

## Features and Benefits

- Expandable up to 8 independent channels using plug-in boards
- Robust wall mounted housing made from fire retardant ABS material grade
- Large graphic display with intuitive icons and all channels shown at a glance
- Dedicated keys make all functions accessible from the front panel
- Multi-language display selectable via menu
- Fully configurable by key/laptop via USB or RS485 ModBUS connection
- Event log upload by galvanically isolated RS485 or USB
- Ethernet ModBUS TCP/IP
- Common relay board for first and second Alarm Level, Horn 1 and 2 or Failure
- Internal buzzer 85 dB
- Manual and “one-man” calibration with stored values

## Remote Gas Detectors

|                                   |                                                                                              |
|-----------------------------------|----------------------------------------------------------------------------------------------|
| <b>Catalytic Detectors</b>        | Series 47K-ST, Series 47K-HT, Series 47K-PRP                                                 |
| <b>Remote Sensor Transmitters</b> | PrimaX I, PrimaX P, PrimaX IR, ULTIMA MOS-5, FlameGard Series, Standard 4–20 mA transmitters |



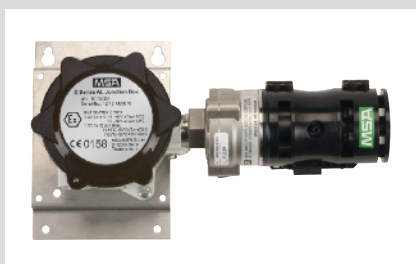
Series 47K



PrimaX I



PrimaX P



PrimaX IR



ULTIMA MOS-5



ULTIMA X Series

## Easy to Install

Thanks to its efficient and ergonomic design, GasGard XL can be wired up and installed quickly and reliably. A large number of plugs for cabling glands allows a tidy cable routing and easy wiring.

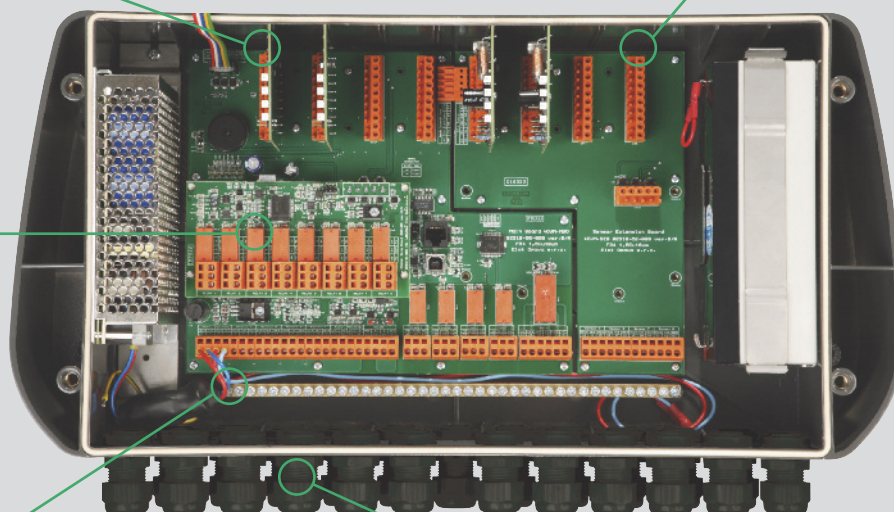
Hot swap  
channel board

Expandable up to 8 independent  
channels using plug-in boards

Fail-to-safe pcbs  
installation  
preserving the  
integrity of the  
remote sensors

Optimised inner  
connection layout

23 plugs for cabling glands  
on the base of the housing



## Technical Specifications

|                                     |                                                                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Power Supply</b>                 | 85 VAC–265 VAC 50/60 Hz                                                                                                                                  |
| <b>Sensor Power Supply</b>          | constant current 80 mA–430 mA<br>18–32 VDC                                                                                                               |
| <b>Connection Modes</b>             | 2, 3 wires                                                                                                                                               |
| <b>Terminal Board</b>               | Sensor connection for wires up to 2.5 mm <sup>2</sup>                                                                                                    |
| <b>Input Signals</b>                | 0–200 mV DC, 4–20 mA                                                                                                                                     |
| <b>Alarm Thresholds</b>             | ALARM 1 (Warning) adjustable from 5 to 100% f.s. (80% LEL for ATEX version)<br>ALARM 2 (Alarm) adjustable from 5 to 100% f.s. (80% LEL for ATEX version) |
| <b>Electronic Speed of Response</b> | < 1s to reach 100% f.s.                                                                                                                                  |
| <b>Span/Zero Drift</b>              | < ±0.5% f.s. ±1 digit/month                                                                                                                              |
| <b>Accuracy/Repeatability</b>       | < ±1% f.s. ±1 digit                                                                                                                                      |

|                               |                                                                                                     |
|-------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Operating Temperature</b>  | –10 °C – +50 °C                                                                                     |
| <b>Storage Temperature</b>    | –20 °C – +75 °C                                                                                     |
| <b>Ambient Humidity</b>       | 90% RH non condensing                                                                               |
| <b>Ingress Protection</b>     | IP56                                                                                                |
| <b>Approvals</b>              | ATEX 2014/34/EU, EN 50270 (EMC),<br>EN 61010-1 (Low Voltage Directive),<br>EN 60079-29-1, CSA, CCCF |
| <b>Dimensions (W x H x D)</b> | 515 x 277 x 129 mm                                                                                  |
| <b>Weight</b>                 | 5 kg<br>8 kg (with battery)                                                                         |
| <b>Housing Material</b>       | ABS plastic high resistant fire retardant<br>grade UL-94V-0                                         |
| <b>Backup Battery</b>         | 2.2 Ah (optional)                                                                                   |

## Ordering Information

| Part No.                             | Description                                                                                                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| A_GASGARDXL                          | <i>Please contact your local MSA representative for a complete configured product</i>                                     |
| <b>Unconfigured Parts</b>            |                                                                                                                           |
| 10090372                             | GasGard XL (incl.: housing, power supply 100 W, designed for up to four channels, common relays, without channel boards)  |
| 10083905                             | GasGard XL (incl.: housing, power supply 100 W, designed for up to eight channels, common relays, without channel boards) |
| 10094352                             | GasGard XL, 4 chn, without power supply                                                                                   |
| <b>Spare Parts &amp; Accessories</b> |                                                                                                                           |
| 10081674                             | GasGard XL, Channel board 4–20mA                                                                                          |
| 10081675                             | GasGard XL, Channel board mV                                                                                              |
| 10081677                             | GasGard XL, Channel relay board                                                                                           |
| 10081676                             | GasGard XL, Sensor extension board                                                                                        |
| 10081679                             | GasGard XL, Display board                                                                                                 |
| 10085436                             | GasGard XL, Main board (chan. 1–4)                                                                                        |
| 10081772                             | GasGard XL, Battery 2.2 Ah, complete                                                                                      |
| 10081678                             | GasGard XL, Power supply 100 W                                                                                            |
| 10081771                             | GasGard XL, Power supply 75 W                                                                                             |
| 10081773                             | GasGard XL, Housing bottom w. inserts                                                                                     |
| 10081774                             | GasGard XL, Lid w. touch pad                                                                                              |
| 10085393                             | GasGard XL, Battery holder w. screws                                                                                      |
| 10085394                             | GasGard XL, Power supply holder                                                                                           |
| 10085435                             | GasGard XL, Spare battery for main board                                                                                  |
| 10089913                             | GasGard XL, Relay board spacers, 6 pcs.                                                                                   |
| 10081775                             | GasGard XL, Flat cable, MB to DB                                                                                          |
| 10081776                             | GasGard XL, Back-up battery cable                                                                                         |
| 10070331                             | USB A-B cable, 1,8 m                                                                                                      |
| 10090929                             | GasGard XL, Set of 12 cable glands                                                                                        |
| 10081777                             | GasGard XL, Set of 4 mount. screws                                                                                        |
| 10081909                             | GasGard XL, Lid fixing screws, 4 pcs.                                                                                     |
| 10081908                             | GasGard XL Operating Manual on CD                                                                                         |



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