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.

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.

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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 RS 485 ModBUS connection
- Event log upload by galvanically isolated RS 485 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
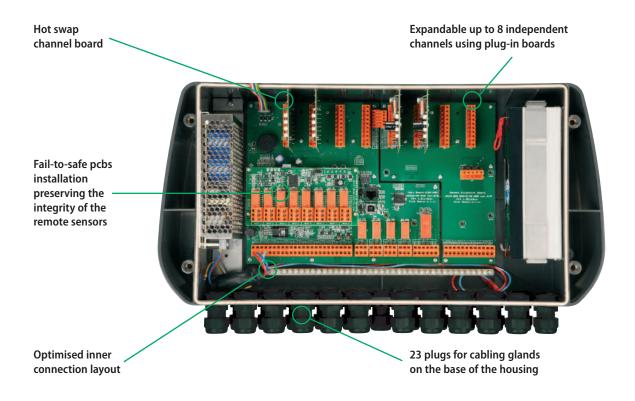- Safety Integrity Level – SIL 2

Remote Gas Detectors

Catalytic Detectors	Series 47K-ST, Series 47K-HT, Series 47K-PRP, D-7010
Remote Sensor Transmitters	DF-7010, PrimaX I, PrimaX P, PrimaX IR, ULTIMA MOS-5, ULTIMA XL/XT Series, ULTIMA X Series, FlameGard Series, Standard 4 – 20 mA transmitters

Series 47K

PrimaX I

PrimaX P

PrimaX IR

ULTIMA MOS-5

ULTIMA XL/XT Series

ULTIMA X Series

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Easy to Install

Thanks to it's 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

Power Supply	85 VAC – 265 VAC 50/60 Hz 24 VDC nominal (range 18 – 32 VDC)
Sensor Power Supply	constant current 80 mA – 430 mA 18 – 32 VDC
Connection Modes	2, 3 wires
Terminal Board	Sensor connection for wires up to 2.5 mm^2
Input Signals	0 – 200 mV DC, 4 – 20 mA
Alarm Thresholds	ALARM 1 (Warning) adjustable from 5 to 100% f.s. (80% LEL for ATEX version) ALARM 2 (Alarm) adjustable from 5 to 100% f.s. (80% LEL for ATEX version)
Electronic Speed of Responsive	< 1s to reach 100% f.s.

Span/Zero Drift	< ±0.5% f.s. ±1 digit/month
Accuracy/Repeatability	< ±1% f.s. ±1 digit
Operating Temperature	−10 °C – +50 °C
Storage Temperature	−20 °C – +75 °C
Ambient Humidity	90% RH non condensing
Ingress Protection	IP 56
Approvals	ATEX 94/9/EC, EN 50270 (EMC), EN 50402, EN 61010-1 (Low Voltage Directive), EN 60079-29-1, SIL 2, CSA, CCCF
Dimensions (W x H x D)	515 x 277 x 129 mm
Weight	5 kg 8 kg (with battery)
Housing Material	ABS plastic high resistant fire retardant grade UL-94 V-0
Backup Battery	2.2 Ah (optional)

Ordering Information

Description	Ordering No.
GasGard XL (incl.: housing, power supply 100 W, designed for up to four channels, common relays, without channel boards)	10090372
GasGard XL (incl.: housing, power supply 100 W, designed for up to eight channels, common relays, without channel boards)	10083905
Accessories	
Sensor extension board (for channels 5 – 8)	10081676
Channel relay board	10081677
Channel board 4 – 20 mA	10081674
Channel board mV (bridge pellistors)	10081675
Back-up battery pack (2.2 Ah) with holder & screws	10081772
EMC filter (to be used with ext. 24 VDC supply)	10081680

Please ask for the separate ordering sheet.

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