GasGard **XL**

Setting Standards of Excellence in Gas Monitoring

MSA
The Safety Company

Certified to:

ATEX
EN 60079-29-1
SIL 2

All inclusive!

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
- Safety Integrity Level – SIL 2

Remote Gas Detectors

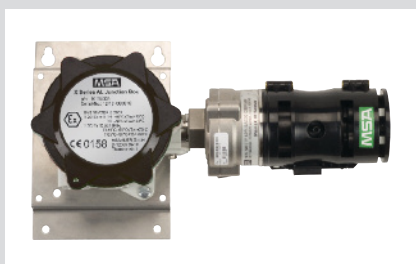|	
Catalytic Detectors	Series 47K-ST, Series 47K-HT, Series 47K-PRP
Remote Sensor Transmitters	PrimaX I, PrimaX P, PrimaX IR, ULTIMA MOS-5, FlameGard Series, Standard 4–20 mA transmitters

Series 47K

PrimaX I

PrimaX P

PrimaX IR

ULTIMA MOS-5

ULTIMA X Series

Easy to Install

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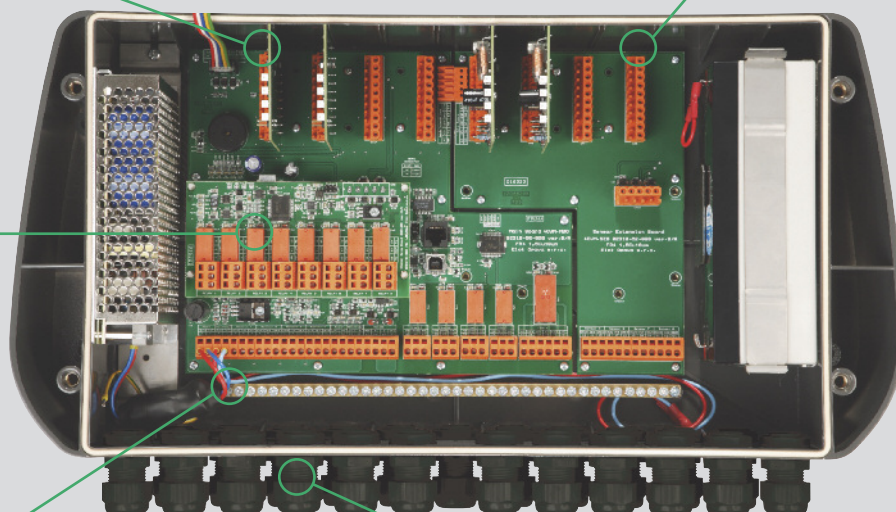A large number of plugs for cabling glands allows a tidy cable routing and easy wiring.

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)	**Operating Temperature**	−10 °C – +50 °C	
Sensor Power Supply	constant current 80 mA–430 mA 18–32 VDC	**Storage Temperature**	−20 °C – +75 °C	
Connection Modes	2, 3 wires	**Ambient Humidity**	90 % RH non condensing	
Terminal Board	Sensor connection for wires up to 2.5 mm^2	**Ingress Protection**	IP56	
Input Signals	0–200 mV DC, 4–20 mA	**Approvals**	ATEX 94/9/EC, EN 50270 (EMC), EN 50402, EN 61010-1 (Low Voltage Directive), EN 60079-29-1, SIL 2, CSA, CCCF	
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)	**Dimensions (W x H x D)**	515 x 277 x 129 mm	
Electronic Speed of Responsive	< 1s to reach 100 % f.s.	**Weight**	5 kg 8 kg (with battery)	
Span/Zero Drift	< ±0.5 % f.s. ±1 digit/month	**Housing Material**	ABS plastic high resistant fire retardant grade UL-94V-0	
Accuracy/ Repeatability	< ±1% f.s. ±1 digit	**Backup Battery**	2.2 Ah (optional)	

Ordering Information

Part No.	Description
A_GASGARDXL	*Please contact your local MSA representative for a complete configured product*
Unconfigured Parts	
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
Spare Parts & Accessories	
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
10081680	GasGard XL, EMC Filter f. 24 VDC operat.,
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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