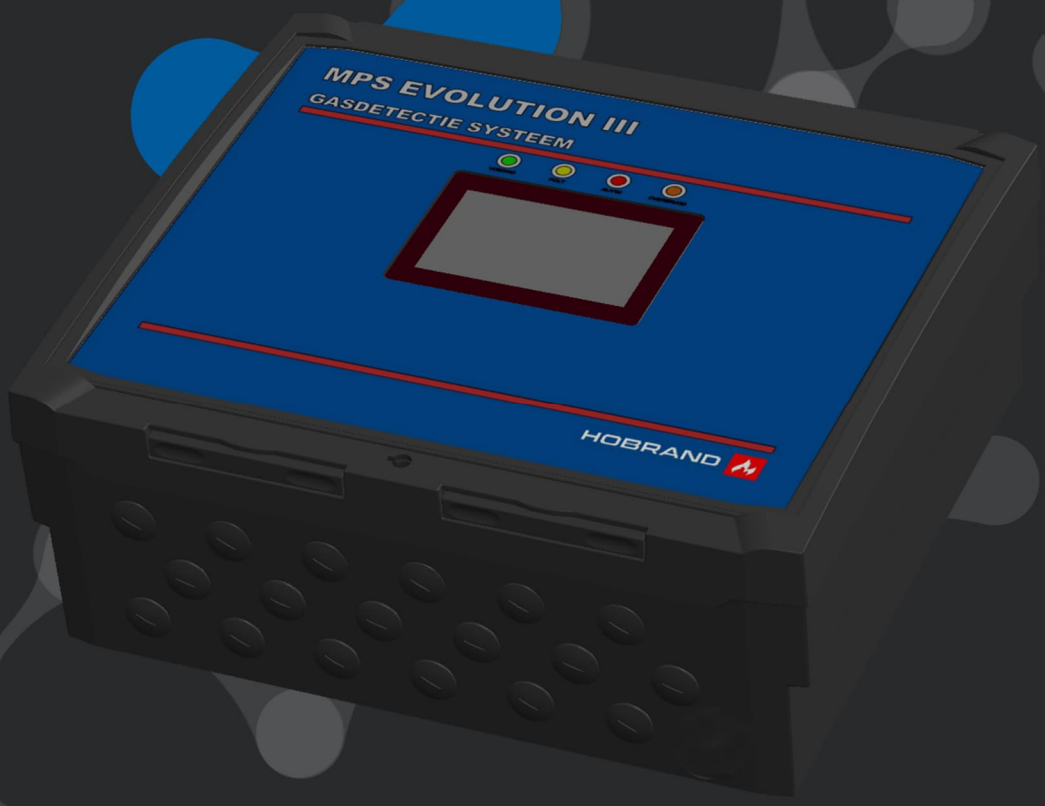
NIEUW

MPS EVOLUTION III

“GASDETECTIONSYSTEM”



FIRE, RESCUE & SAFETY

HOBRAND

INTRODUCTION

The **MPS**® Evolution **III** detection system is designed according to the applicable standards and guarantees the detection of CO, NO, NO2, H2, NH3, H2S, O2, CO2 and LPG in combination with addressable gas detectors for toxic and flammable gases.

The system offers extensive functionalities and configuration options, which can be set up and managed via a menu-driven TFT screen directly on the **MPS**® Evolution **III** itself or via a remote computer.

64 DETECTORS ON ONE CONTROL PANEL

Connection via Ethernet makes remote configuration and information provision easy. The system is capable of monitoring up to 64 detectors that are randomly connected via an RS 485 serial data bus. For data processing, the **MPS**® Evolution **III** uses advanced technology.

SAVINGS IN CABLING COSTS

The logic of the system results in significantly lower cabling costs and therefore Cost-effective installation. The **MPS**® Evolution **III** is supplied in a plastic wall housing with 8 freely configurable relays as standard, and 4 discrete inputs for connecting external input signals. In the wall housing there is room for an extra relay module that also has 8 freely configurable relays.
Optionally, a battery backup system (UPS) is available.
Because many older systems are made in star cabling, the design is designed in such a way that it turns star cabling into an addressed loop, which results in the cabling being reused often.

APPLICATION

The **MPS**® Evolution **III** is designed for parking and parking garages where control of mechanical ventilation is required.
The gas detection system ensures that the ventilation is switched up in case of an increased CO, NO or LPG concentration. The activation of the evacuation system and connection to fire alarm panel is initiated by the **MPS**® Evolution **III** . The **MPS**® Evolution **III** meets the requirements as set out in NEN 2443:2013, the Dutch standard for parking and storing passenger cars in garages, and also the VDI 2053 standard for Germany. EMC 89/336/EEC, 73/23/EEC, EN61000-6-3+A11, EN61000-6-2, EN61000-3-2 and EN61000-3-3+A1 is part of the certificate.

In addition to the use of gas detection in parking and parking garages, the system can also be used for other applications, including schools, food and refrigerants and other light industry.

TYPICAL FEATURES

- Large, easy-to-read graphic 7" capacitive touch screen.
- Easy configuration by means of Laptop or touch screen.
- One sensor PCB module for 10 different sensors
- Sensor status via the touch panel or laptop on the HTML page via LAN port.
- Menus are password protected.
- Fully Linux software driven, creating a very reliable platform.
- New software easy to load via the USB port.
- Configuration and settings can be saved on an SD card (optional)
- Special processing increases EMC immunity.
- High reliability thanks to the CMOS components used with a long lifespan and low energy consumption.
- Due to the built-in HTML page, the current measurement values and other data can be read at any available location, it is also possible to temporarily suppress measurement points and outputs.
- Due to the unique design, it is possible to place a relay module in the RS485 data line, making 8 configurable and 4 discrete inputs available locally.
- Stainless steel housings MPS® Evolution II can be reused.
- Real-time protocol control for address, synchronization and checksum.
- Stainless steel 304 vandal-resistant design of the stainless steel housing, extremely robust, with connection terminals, by using break ports, cable entry can be easily carried out at the top, back and bottom.
- Design of the plastic housing, robust, with connection terminals, by using break ports, cable entry can be easily carried out at the top, back and bottom.
- Industrial sensors with long life, typical life in clean air is at least 5 years for the CO sensor, and ± 10 years for the LPG sensor. The other sensors have an average lifespan of 3 years.
- The field technician mounts the electronics with the sensor in the housing during commissioning and adjusts it.

SPECIFICATIONS

All gas detection systems must be regularly calibrated and maintained in accordance with the manufacturer's instructions to ensure safety and performance.

	Definition	
SUPPLY	Main feed	100-240VAC 3.5A 50Hz
	Internal power supply	24VDC 10A
	Ability	65W max.
HOUSING	Material	Plastic ABS-PC UL94 V-0
	Dimension	400x340x160 mm
	Weight	2 kg
	Protection	IP54
	Mounting	4 schroeven
CONNECTION	Cable entry	10x M20 en 1xM25
	Terminals	1 x 2,5 mm^2 or 2 x 1,5 mm^2 per terminal
INPUTS	Sensors/relay modules	64
	Type sensors	10 (analog 4 wire)
	Cable length	Max 1000m (w.o. end of line)
	Discrete ingangen	4
OUTPUTS	Configureerbare relais basis unit 5A	8
	Configurable relay expansion 5A	32
	Configurable fault relay 5A	32
	Configurable horn relay 5A	32
INTERFACE	Screen	TFT touch screen
	Power supply available	LED green
	Inhibit	LED orange
	Fault	LED yellow
	Alarm	LED red
FUNCTIONS	Configurable alarm levels per sensor	3
	Password protection	Yes
	Maintenance notification	Yes
	Display of alarms and other messages	Yes
	Zone layout per output	Yes
	Temporary override	Yes
	Automatic initiation inputs	Yes
	Group Calibration	Yes
	Individual calibration	Yes
	Over night zero correction	Yes
	Storage Log	Yes
Conditions	Temperature	-10°C to +55°C
	Relative humidity	10 to 90%RH (non-condensing)
Certification	Electromagnetic compatibility (EMC)	EN 50270 (type 1)
	Low-voltage safety	EN 61010-1
	Marking	CE, Rosh
	Electrical apparatus for the detection	NEN-EN 50545-1

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GAS EN VLAMDETECTIE

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