

Gas Detection System in Closed Parking Areas...

Intelligent Adressable Gas Detection and Alarm Systems

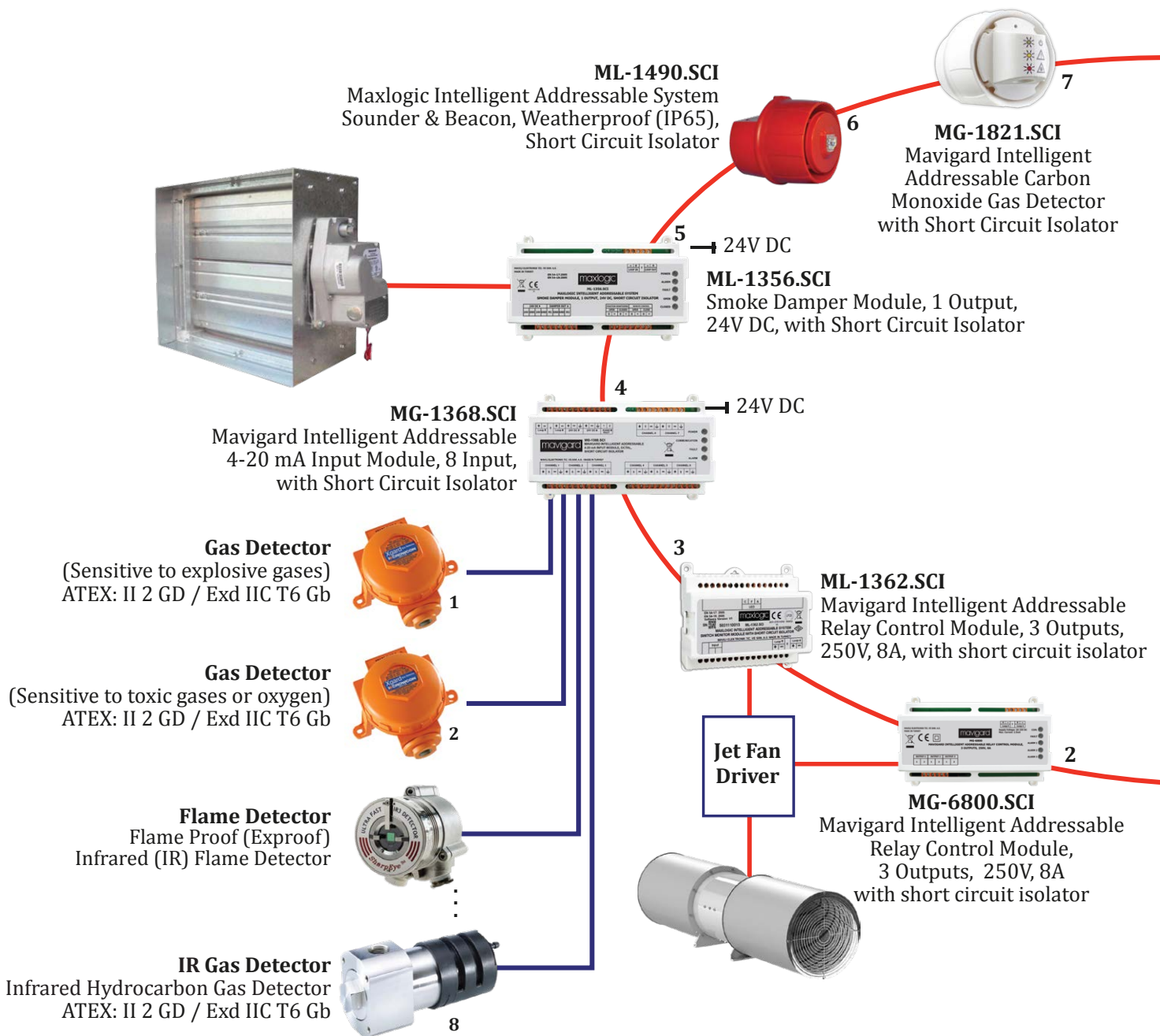
Mavigard gas detection systems, preferred in areas containing toxic and flammable gases, are produced using surface mounting technology. The design of each product is the result of meticulous, user-focused work. These systems, designed to protect against carbon monoxide and explosive gas leaks, utilize high-tech electrochemical and catalytic sensors.



- ▶ All devices in the system are manufactured using surface mounting technology (SMT)
- ▶ Detectors and alarm devices have IP65 protection class.
- ▶ Communication with all devices in the loop is completed within 10 seconds at most
- ▶ System operating status is shown via LEDs.
- ▶ Thanks to its 4-20mA module, it is suitable for use with industrial gas detectors.
- ▶ The Panel has test and disable functions.
- ▶ Panels have dry contact and general error relay outputs for separate levels (Alarm1, Alarm2, Alarm3). There are a total of 4 powered sounder outputs, including alarm levels.
- ▶ Suitable for Sink/Source operating structure
- ▶ Monitoring of sensor field elements giving 4-20 outputs used in industrial automation and automatic control systems can be done from the system
- ▶ Detectors/sensors that give 4-20 mA analog output can be included in the system and alarm, short circuit, open circuit information can be transferred to the panel.
- ▶ SPRVSR+ Graphical Monitoring and Management Software enables point-based, remote monitoring, control and event log storage of Mavigard gas detection systems.
- ▶ At the time of the incident; the type of event, date, time, etc. Instant or daily reporting containing information can be sent via SMS or e-mail.
- ▶ Alarm Cancel, Alarm etc. in situations requiring intervention. Commands can also be sent via SPRVSR+.
- ▶ The gas alarm can be monitored immediately via the IP camera system.

maxlogic & mavigard
fire and gas detection systems

Working Structure and Features of Intelligent Addressable Gas Detection and Alarm System



- ▶ **127 devices** can be connected to 1 loop of the panel, and a capacity of 1016 devices can be reached by expanding up to 8 loops.
- ▶ 64 panel can work with network thanks to the **CANBus (Network)** communication protocol.
- ▶ **65.024** devices can be monitored in the network structure.
- ▶ Other panels can be monitored and controlled from any panel within the network.
- ▶ The detection range of the intelligent addressable carbon monoxide (**CO**) detector is **0-500 ppm**, and the sensor sensitivity is **1 ppm**.
- ▶ The detection range of the smart addressable butane-propane (**LPG**) detector is **0% - 100% LEL**, and the sensor sensitivity is **1%LEL**.
- ▶ LPG detectors have **3 alarm levels: 20%LEL, 40%LEL and 100%LEL**.

ML-1480.SCI
Maxlogic Intelligent
Addressable System Beacon,
Weatherproof (IP65),
Short Circuit Isolator



8

ML-2490
Conventional Sounder Beacon,
Weatherproof (IP65)



MG-1822.SCI
Mavigard Intelligent
Addressable Gas
Detector LPG, with
short circuit isolator

SPRVSR+ Graphical Monitoring
and Management Software



MG-4228
Mavigard Intelligent Addressable
Gas Control Panel, 8 Loops

ML-1361.SCI
Maxlogic Intelligent Addressable
Relay Control Module, 1 Output
with short circuit isolator



1



MG-4220.N
Mavigard Intelligent Addressable Gas
Control Panel, without Loop, Network



GCU Panel

- ▶ Communication can be achieved via **TCP/IP, GPRS, RS-232/RS-485** with the GCU panel or SGC module integrated into the network structure.
- ▶ Integration into **BMS** can be achieved by sharing the information on **MODBUS** outputs software.
- ▶ There are **1000 alarms** and **1000 errors** etc. in the memory of each panel. Other event records can be stored.
- ▶ By creating **40 virtual zones**, **120 relay control modules** can be activated.
- ▶ **1000 scenarios** (Cause / Effect) can be made for each panel.
- ▶ The panels have an **RS-232** computer connection port to enable configuration and scenario operations.
- ▶ Instant and average status information of the loop, address, zone, unit, measured gas concentration can be monitored on the **LCD** screen on the panel.
- ▶ There are **yellow, red and green LED** indicators to monitor the alarm levels (**Alarm 1, 2 and 3**) and the operating status of the detectors.

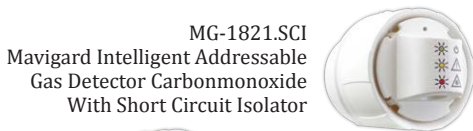
Intelligent Addressable Gas Control Panels



MG-4228
Mavigard Intelligent Addressable
Gas Control Panel, 8 Loop

- ▶ 3 different programmable alarm output levels for dangerous situations
- ▶ Creating a network using CAN protocol
- ▶ Modular structure that can expand up to 8 loops
- ▶ Interactive working with Building Management Systems via Modbus protocol
- ▶ Software support for configuration operations
- ▶ 1000 programmable zones
- ▶ Event log memory
- ▶ Priority display of gas alarm
- ▶ 4 programmable remote control inputs
- ▶ Advanced control / display features with 240x64 LCD screen
- ▶ Ease of monitoring and control with SPRVSR+ software, which is Graphical Monitoring and Management Software

Intelligent Addressable Gas Detectors



MG-1821.SCI
Mavigard Intelligent Addressable
Gas Detector Carbonmonoxide
With Short Circuit Isolator



MG-1822.SCI
Mavigard Intelligent
Addressable Gas Detector, LPG
With Short Circuit Isolator

- ▶ Compliant with EN 50545-1 standards
- ▶ Sound and light notification, control possibility via addressable gas alarm panel
- ▶ 3 separate alarm levels for the carbon monoxide (CO) detector are defined as Alarm 1 = 30ppm, Alarm 2 = 60 ppm, Alarm 3 = 150ppm
- ▶ 3 separate alarm levels for LPG detector; It is recognized as Alarm 1 = 20%LEL, Alarm 2 = 4% 0LEL, Alarm 3 = 100%LEL
- ▶ Alarm threshold levels can be adjusted

Intelligent Addressable Control Modules



MG-1368.SCI
Mavigard Intelligent Addressable
4-20 mA 8 Input Module With
Short Circuit Isolator

MG-6800
Mavigard Intelligent Addressable
Relay Control Module,
3 Outputs, 250V, 8A



- ▶ Compliant with EN 54-18 and EN 54-17 standards
- ▶ Model option with short circuit isolator
- ▶ Communication, Fault, Alarm 1, Alarm 2 and Alarm 3 LED indicators in the relay control module
- ▶ Power, Communication, Fault and Alarm LED indicators located on the octal input module
- ▶ Modules are addressed software using an addressing device

PANEL MODELS

Product code	Description
MG-4220.N	Mavigard Intelligent Addressable Gas Control Panel, 0 Loop, Network
MG-4230.N	Mavigard Intelligent Addressable Gas Control Panel, 0 Loop, Network, Printer
MG-4221	Mavigard Intelligent Addressable Gas Control Panel, 1 Loop
MG-4222	Mavigard Intelligent Addressable Gas Control Panel, 2 Loop
MG-4223	Mavigard Intelligent Addressable Gas Control Panel, 3 Loop
MG-4224	Mavigard Intelligent Addressable Gas Control Panel, 4 Loop
MG-4225	Mavigard Intelligent Addressable Gas Control Panel, 5 Loop
MG-4226	Mavigard Intelligent Addressable Gas Control Panel, 6 Loop
MG-4227	Mavigard Intelligent Addressable Gas Control Panel, 7 Loop
MG-4228	Mavigard Intelligent Addressable Gas Control Panel, 8 Loop
MG-4231.P	Mavigard Intelligent Addressable Gas Control Panel, 1 Loop, Printer
MG-4232.P	Mavigard Intelligent Addressable Gas Control Panel, 2 Loop, Printer
MG-4233.P	Mavigard Intelligent Addressable Gas Control Panel, 3 Loop, Printer
MG-4234.P	Mavigard Intelligent Addressable Gas Control Panel, 4 Loop, Printer
MG-4235.P	Mavigard Intelligent Addressable Gas Control Panel, 5 Loop, Printer
MG-4236.P	Mavigard Intelligent Addressable Gas Control Panel, 6 Loop, Printer
MG-4237.P	Mavigard Intelligent Addressable Gas Control Panel, 7 Loop, Printer
MG-4238.P	Mavigard Intelligent Addressable Gas Control Panel, 8 Loop, Printer
MG-12015	Mavigard Intelligent Addressable Gas Control Panel Network Card

DETECTOR MODELS

Product code	Description
MG-1821	Mavigard Intelligent Addressable Gas Detector Carbonmonoxide
MG-1821.SCI	Mavigard Intelligent Addressable Gas Detector Carbonmonoxide With Short Circuit Isolator
MG-1822	Mavigard Intelligent Addressable Gas Detector,LPG
MG-1822.SCI	Mavigard Intelligent Addressable Gas Detector,LPG, With Short Circuit Isolator

MODULE MODELS

Product code	Description
MG-6800	Mavigard Intelligent Addressable Relay Control Module, 3 Outputs, 250V, 8A
MG-6800.SCI	Mavigard Intelligent Addressable Relay Control Module, 3 Outputs, 250V, 8A with short circuit isolator
MG-1368	Mavigard Intelligent Addressable 4-20 mA 8 Input Module
MG-1368.SCI	Mavigard Intelligent Addressable 4-20 mA 8 Input Module With Short Circuit Isolator
ML-1356	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V DC
ML-1356.SCI	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V DC, Short Circuit Isolator
ML-1357	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V AC
ML-1357.SCI	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V AC, Short Circuit Isolator
ML-1358	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 220V AC
ML-1358.SCI	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 220V AC, Short Circuit Isolator
ML-1361	Maxlogic Intelligent Addressable System Relay Control Module
ML-1361.SCI	Maxlogic Intelligent Addressable System Relay Control Module with Short Circuit Isolator
ML-1362	Maxlogic Intelligent Addressable System Switch Monitor Module
ML-1362.SCI	Maxlogic Intelligent Addressable System Switch Monitor Module with Short Circuit Isolator

SOFTWARE MODELS

Product code	Description
MG-1620	Mavigard Intelligent Addressable Gas Loop Manager
ML-1010	Maxlogic Intelligent Analogue Addressable Address Programmer

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