



# Marine Type Fire Detection and Alarm Systems

Generating Confidence

maxlogic & mavigard  
fire and gas detection systems

# About Us

Mavili Elektronik A.Ş. operating in the field of fire and gas detection systems since 1987, offers its products and services internationally in compliance with international standards. The company manufactures accredited products approved by authorized institutions, making them available for use in over **70 countries**, including Turkey.

The company, utilizing state-of-the-art technology, produces innovative and user-friendly solutions in the integration of smart building technologies. It is a solution partner for many leading brands in the fields of **CCTV, IP Camera, VMS/PSIM, Access Control and BMS**, establishing itself as a leader in these areas.

Mavili conducts meticulous project planning with **Maxlogic & Mavigard** brand fire alarm systems for various types of areas, ranging from shopping malls to airports, cargo ships to passenger vessels, large hotel chains to complex living spaces, hospitals, universities, and high-risk structures such as industrial facilities.

The company, demonstrating its expertise in both developing products and implementing them in the field concerning standards and regulations, offers a diverse range of products. This range includes software solutions that provide centralized monitoring and control, emphasizing the company's commitment to compliance with standards and regulations throughout the product development and implementation processes.

Mavili combines the expertise of its specialized workforce, industry experience, and a commitment to developing products tailored to customer needs while developing fire and gas detection systems, which are crucial for ensuring life and property safety. The company places great importance on merging knowledge, sector know-how, and understanding customer requirements to create effective solutions for fire and gas safety.

Mavili, its factories located in Ümraniye and Gebze, along with seven regional directorates, aims to be by the customer's side not only during the pre-sales phase but also after the sale. With a workforce exceeding **250 people**, the company continues to serve this industry by maintaining a presence in various regions.



## mavili

## Certificates and Licences

- \* Mavili Elektronik A.Ş.'s **ISO 9001** quality management system, which it implements, has been audited by the world-renowned **LPCB (Loss Prevention Certification Board)** organization and is certified for compliance with **ISO 9001:2015**.
- \* We have undergone an audit for compliance with the **TS EN ISO/IEC 27001:2017** Information Security Management System, conducted by the certification and surveillance services of DataCert Certification Ltd. The audit has confirmed our compliance, and we have been certified with the **TS EN ISO/IEC 27001:2017** certificate.
- \* Our Fire Alarm System products have the **TS EN 54** certification.
- \* Our Fire Detection and Alarm System products have been certified by **LPCB** and **Dedal**, receiving **EN 54** and **CPR** certifications. This approval from international accredited organizations further validates the quality of our products.
- \* Our services are certified with the **TS 12849** Service Place Competency Certificate and the After Sales Services Competency Certificate.
- \* Our Marine type products are certified by **TÜRK LOYDU (SOLAS 74 and FSS)**, and **MED (WHEELMARK)**.
- \* The factory located in Gebze has been entitled to the **Zero Waste Certificate** by establishing a Zero Waste Management System in compliance with the Zero Waste Regulation, which came into effect with the publication in the Official Gazette dated 12/07/2019 and numbered 30829.
- \* Our products have Customs Union Conformity Certificates (**EAC Certificates**) confirming their compliance with approved regulations within the Eurasian Economic Union region.
- \* Certification by **Exveritas** has been obtained, verifying the implementation of quality management systems in the production of explosion-proof products with the **EN ISO/IEC 80079-34** certificate. Additionally, products intended for use in explosive atmospheres have been certified with the **ATEX Type Approval Certificate** for intrinsic safety.
- \* Our products have **USAGE LICENSES** issued by the authorized entities in many countries worldwide.

## Project Areas

More than **100.000** buildings worldwide are protected by **Maxlogic & Mavigard** fire and gas detection systems.



Shopping Malls



Public Buildings



Residences



Car Parks



Industrial Facilities



Airports



Metro and Railway



Hotels



Court House and Prisons



Hospitals



Educational Institutions



Sea Vehicles

and you may contact us for further information

## Our Marine Type Systems in International Waters...

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# Marine Type Fire Detection and Alarm Systems

In marine, the limited options for escaping a fire, the challenging access for firefighting, and the restricted manpower for personnel/passengers make fire detection systems of vital importance. Therefore, regardless of the type and purpose of the maritime vessel, it is essential to ensure that the materials used in its construction are as non-combustible as possible and to assess the risks in the event of a possible fire.

Being informed as quickly as possible about a fire is the most critical criterion for intervention. This situation necessitates the installation of a reliable fire and gas detection system suitable for maritime use in order to meet this need in the maritime industry.

Our Marine Type Fire Detection and Alarm Systems are tested according to **SOLAS 74** and **FSS (Fire Safety System)** standards, and they hold approval certificates thanks to **Turkish Lloyd** and **MED (Marine Equipment Directive)** compliance.

### Adressable Systems Features

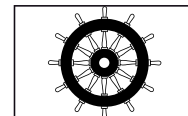
- ▶ Modular structure that can expand from 1 loop to 8 loop
- ▶ Model option with thermal printer
- ▶ 1000 event log memory
- ▶ Up to 1000 cause-effect scenarios can be created for each panel

### Conventional System Features

- ▶ 2, 4, 8 ve 16 zone capacity
- ▶ Microprocessor controlled
- ▶ Stable sensitivity
- ▶ PCB protection against to humidity and corrosion

### Fire Extinguishing Systems Features

- ▶ 4 detection zones, 1extingusiing zone
- ▶ Extinguishing related front panel LEDs and LCD screen provide full system information
- ▶ Delay and extinguishing time can be adjusted
- ▶ Selenoid Valve or actuator can be connected to the extinguishing output







4 Simple and Functional...

# Intelligent Addressable Fire Alarm Panels

Maxlogic series intelligent addressable fire alarm control panels which have aesthetic design and user friendly features, offering high performance by the VIP communication protocol.



ML-1248.P/M  
Maxlogic Intelligent Addressable Fire Alarm Control Panel, 8 Loops, 1016 Address, Printer, Marine Approved

- Compliant with EN 54-2 and EN 54-4 standards
- Expandable up to 8 loops, max 1016 address capacity of each panels
- Printer-equipped model option allowing the printing of event records in real-time or in bulk





ML-1238/M  
Maxlogic Intelligent Addressable System  
Fire Alarm Control Panel, 8 Loops, 1016  
Address, Marine Approved

- Compliant with EN 54-2 and EN 54-4 standards
- Manufactured with surface mount technology
- Protection against electromagnetic interference
- Real Time Clock
- Adjustable graphical LCD display with 240x64 light intensity located on the panel

- 4 programmable supervised remote Control
- Communication interrupt for fire, fast detection in 1.5 sec
- Up to 64 panels and/or repeater panels can be assembled with CAN protocol
- Key required for access to panel menus
- Supervised environmental elements (power supply, loop expansion, printer...)
- Input/output modules directly connectable to the panel
- Event selection and advanced parametric editing options for inputs/outputs devices
- Capability to create 1000 fire scenarios per panel
- 4 Options for 4 different languages (Turkish, English, Russian, French)
- Day and night mode, pre-alarm, contamination warning into a network
- Priority display of fire alarms, separate query buttons for fire and other types of events, categorical classification based on events
- 1000 event log and programmable zones memory
- Microprocessor-controlled design

#### PANEL MODELS

Product Code	Loop	Address
ML-1230.N/M	0	0
ML-1231/M	1	127
ML-1232/M	2	254
ML-1233/M	3	381
ML-1234/M	4	508
ML-1235/M	5	635
ML-1236/M	6	762
ML-1237/M	7	889
ML-1238/M	8	1016
ML-1231.N/M	1	127
ML-1232.N/M	2	254
ML-1233.N/M	3	381
ML-1234.N/M	4	508
ML-1235.N/M	5	635
ML-1236.N/M	6	762
ML-1237.N/M	7	889
ML-1238.N/M	8	1016

#### PANEL MODELS

Product Code	Loop	Address
ML-1241.P/M	1	127
ML-1242.P/M	2	254
ML-1243.P/M	3	381
ML-1244.P/M	4	508
ML-1245.P/M	5	635
ML-1246.P/M	6	762
ML-1247.P/M	7	889
ML-1248.P/M	8	1016
ML-1240.NP/M	0	0
ML-1241.NP/M	1	127
ML-1242.NP/M	2	254
ML-1243.NP/M	3	381
ML-1244.NP/M	4	508
ML-1245.NP/M	5	635
ML-1246.NP/M	6	762
ML-1247.NP/M	7	889
ML-1248.NP/M	8	1016



Service is in your authorization...



# ML-122X/M Series Maxlogic Intelligence Addressable Fire Alarm Panels

Intelligent addressable detectors, call points, loop-powered sounders, loop-powered sounder base, sounders with flashers, zone control modules, and gas detectors can be programmed to operate in cause-and-effect scenarios, enabling fire automation.

- ▶ Compliant with EN 54-2 and EN 54-4 standard
- ▶ Supervised environmental elements
- ▶ Event selection and advanced parametric editing options for input/output devices
- ▶ Priority display of fire alarms, separate query buttons for fire and other types of events, categorical classification based on events
- ▶ 64 programmable zones and a memory capacity of 1000 event records
- ▶ Modular structure that can expand up to 2 loops with a capacity of 254 addresses



## PANEL MODELS

Product Code	Description
ML-1221/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 1 Loop, 127 Address, Marine Approved
ML-1222/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 2 Loops, 254 Address, Marine Approved

## SOFTWARE MODELS

Product Code	Description
ML-1613.1	Maxlogic Intelligent Addressable System LoopManager+ Lite Software Using cost (Including Converter and Communication Cable)
ML-1010	Maxlogic address programmer



# Perfect Software Communication...



## Intelligent Addressable System GCU Panel

GCU panel provides communication between Maxlogic intelligent addressable fire detection system and supervisor and/or building management systems.



ML-1207.C  
Maxlogic Addressable GCU Panel, 3A  
Power Supply and TCP / IP Modules  
Included, Marine Approved

- For the communication with supervisor, GCU panel uses RS-232, RS-485 for close access, IP based communication like GPRS and TCP/IP communication modules for longer distance..
- It can interact with other systems via Modbus/Bacnet protocol.
- Connecting options of advanced modular structure with up to 16 expandable communication modules
- GCU uses the same network with up to 63 panels.
- Through back-up working based structure, uninterrupted communication is provided.

### GCU MODELS

Product Code	Description
ML-1207.C/M	Maxlogic Addressable GCU Panel, 3A Power Supply and TCP / IP Modules Included, Marine Approved
ML-1207.G/M	Maxlogic Addressable GCU Panel, 3A Power Supply and GPRS Modules Included, Marine Approved
ML-1207.B/M	Maxlogic Intelligent Addressable System GCU Panel, BACnet module included, Marine Approved
ML-1207.MX/M	Maxlogic Intelligent Addressable System GCU Panel, Modbus module included, Marine Approved
ML-1207.NTP/M	Maxlogic System-NTP Server Communication Module, Marine Approved





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# Graphic Monitoring and Control...

## 7" TFT Mimic Panel

Maxlogic Intelligent Addressable System Mimic Panel is connected as a repeater panel to a network created from the Maxlogic panels, shows graphically the location of fire incidents on the maps previously uploaded by user and send commands, such as "reset", "alarm", "silence alarm" to networked panels. It is easy to use and has an aesthetic design.



ML-1280/M  
Maxlogic Addressable 7" TFT  
Mimic Panel, Marine Approved

- ▶ Mimic Manager Software for easy programming via PC
- ▶ Integration of building projects into the ML-1280/M 7" TFT Mimic Panel via SD card
- ▶ Possible monitoring fire events graphically via Mimic Manager software
- ▶ Layered monitoring for each device
- ▶ Automatic or manual navigation between the maps in case of fire
- ▶ When a fire incident occurs, displaying the date/time information of the current incident from the menu and detailed device information of the device from which the fire incident occurs
- ▶ Possible sending information Alarm / Alarm Silence / Reset to all panels in network
- ▶ Audio warning in case of fire thanks to the built-in buzzer

### PANEL MODELS

Product Code	Description
ML-1280/M	Maxlogic Addressable 7" TFT Mimic Panel, Marine Approved

### SOFTWARE MODELS

Product Code	Description
ML-1621.1	ML-1280 7" TFT Mimic Panel Software using cost (Communication Cable and Converter included)





Keep Your  
Eyes On The  
Heights...



# Intelligent Addressable Beam Type Smoke Detectors

It is a modern device designed to detect smoke with infrared rays in places with large and high areas such as warehouses and shopping malls. It is a beam type smoke detector with an external appearance and produced with surface mounting production technique. Due to the smoke released during the fire Detectors detect according to the decreasing amount of infrared light.

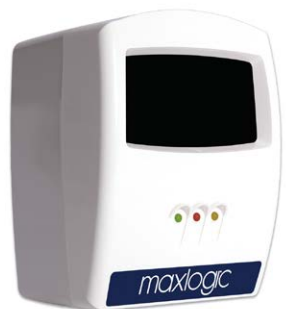


ML-1170.SCI/M  
Maxlogic Intelligent Analogue  
Addressable Beam Detector, Short  
Circuit Isolator, Marine Approved



ML-1170.SCI/M  
Maxlogic Intelligent Analogue  
Addressable Beam Detector, Short  
Circuit Isolator, Marine Approved

Maxlogic beam type smoke detector consists of 2 parts; receiver and transmitter. They should be installed as facing each other between the distance of 5-100m.



ML-1173.SCI/M  
Maxlogic Intelligent Addressable Reflective  
Beam Type Smoke Detector, c/w Short Circuit  
Isolator, Marine Approved



ML-0171  
Maxlogic Beam  
Type Smoke  
Detector Reflector,  
1 Piece Set



ML-0174  
Maxlogic Beam Type Smoke  
Detector Reflector, 4 Piece Set

Reflective beam type smoke detector consists 2 parts as a receiver/transmitter unit and reflector. Unit and reflector should be mounted as facing each other, distance is 5-35 meters with 1 reflector and 5-50 meters with using 4 reflectors.

- Intelligent addressable and conventional models
- Short circuit isolator models
- Receiver-Transmitter or reflective models
- 2 digit numerical screen for easy commissioning and setup
- With beam type smoke detector 1500 m2, with reflective beam type smoke detector 750 m2 protection area
- Easy programming buttons
- LED indicators for power, fire and fault conditions
- Ability to adjust itself to polluted and dirty environment
- Three sensitivity levels can be easily adjusted
- Continuous control of communication against the faults

DETECTOR MODELS	
Product Code	Description
ML-1170/M	Maxlogic Intelligent Analogue Addressable Beam Detector, Marine Approved
ML-1170.SCI/M	Maxlogic Intelligent Analogue Addressable Beam Detector, Short Circuit Isolator, Marine Approved
ML-1173/M	Maxlogic Intelligent Addressable Reflective Beam Detector, (Included 1 Reflector), Marine Approved
ML-1173.SCI/M	Maxlogic Intelligent Addressable Reflective Beam Type Smoke Detector, c/w Short Circuit Isolator, Marine Approved
ML-2170/M	Maxlogic Conventional Beam Type Smoke Dedector, Marine Approved
ML-2173/M	Maxlogic Conventional Reflector Beam Detector, Marine Approved
ML-0171	Maxlogic Beam Type Smoke Detector Reflector, 1 Piece Set
ML-0174	Maxlogic Beam Type Smoke Detector Reflector, 4 Piece Set



## Perfect harmony of software and hardware...



# Intelligent Addressable Fire Detectors

Intelligent addressable fire detectors, offering high performance by the VIP communication protocol, provide a high level of reliability as a result of stable detection feature.

- Compatible with EN 54-5, EN 54-7 and EN 54-17
- Microprocessor controlled
- Twin fire alarm indicators for 360° viewing
- Remote indicator output
- Clip snap-on to prevent contact ignition
- Optional short circuit isolator module
- RY LED glows Red in case of fire, Yellow in case of pollution and fault conditions
- Compatible with ML-0121/M series surface mounting back box, Compatible with MG-3700/M series surface mounting back box
- Compatible with ML-0150/M recessed mounting base
- Easy mounting and dismounting



ML-1110.SCI/M  
Maxlogic Intelligent Addressable  
Photo-Electric Smoke Detector with  
short circuit isolator, Marine Approved

ML-1130.SCI/M  
Maxlogic Intelligent Addressable Heat Detector  
with Short Circuit Isolator, Marine Approved

ML-1140.SCI/M  
Maxlogic Intelligent Addressable  
Multisensor (Photo-Electric Smoke + Heat)  
Detector with short circuit isolator,  
Marine Approved





#### **ML-1110.SCI/M Maxlogic Intelligent Analogue Addressable System Photoelectric Smoke Detector, Marine Approved**

Photo electric smoke detectors utilize the IR light scatter principle. The chamber is designed for protection from dust, insects and other external interferences. Through short circuit isolator, the line is isolated in case of short circuit.



#### **ML-1120/M Maxlogic Intelligent Analogue Addressable System A1S Fixed Temp Heat Detector, Marine Approved**

Smart addressable fixed temperature detectors detect and interpret ambient temperature using a thermistor. If the ambient temperature reaches 60°C, a fire is detected, and a fire signal is generated.

#### **ML-1130.SCI/M Maxlogic Intelligent Analogue Addressable System A1R Rate of Rise Heat Detector, Marine Approved**

Intelligent addressable temperature detectors detect temperature using a temperature-sensitive thermistor. They can function as either a fixed temperature detector or a rate-of-rise temperature detector. The short circuit isolator isolates the circuit in case of any potential short circuit situations.

#### **ML-1130BS/M Maxlogic Intelligent Analogue Addressable System class BS heat detector**

Intelligent addressable BS class heat detectors detect and interpret ambient temperature using a thermistor. If the ambient temperature reaches 80°C, it produces a fire signal and transmits it to the fire alarm control panel. It features 2 LED indicators providing a 360° viewing angle. During communication with the control panel, it flashes when the device address is queried. In case of an alarm, it remains continuously lit. It complies with EN 54-5 standards and is suitable for indoor use.



#### **ML-1140.SCI/M Maxlogic Intelligent Analogue Addressable System Multi-Sensor Detector, with short circuit isolator, Marine Approved**

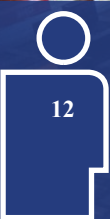
Intelligent addressable multisensor detectors feature a photoelectric smoke chamber operating on the principle of IR light scattering, along with a temperature-sensitive thermistor. The photoelectric smoke chamber is designed to be unaffected by external factors such as large particle dust, flies, and insects. The short circuit isolator isolates the circuit in case of any potential short circuit situations.

#### **DETECTOR MODELS**

Product Code	Description
ML-1110/M	Maxlogic Intelligent Analogue Addressable Photo-Electric Smoke Detector, Marine Approved
ML-1120/M	Maxlogic Intelligent Addressable System A1S Fixed Temp Heat Detector, Marine Approved
ML-1130/M	Maxlogic Intelligent Addressable Heat Detector, Marine Approved
ML-1140/M	Maxlogic Intelligent Addressable Multisensor (Photo-Electric Smoke + Heat) Detector, Marine Approved
ML-1110.SCI/M	Maxlogic Intelligent Addressable Photo-Electric Smoke Detector with short circuit isolator, Marine Approved
ML-1120.SCI/M	Maxlogic Intelligent Addressable System A1S Fixed Temp Heat Detector with Short Circuit Isolator, Marine Approved
ML-1130.SCI/M	Maxlogic Intelligent Addressable Heat Detector with Short Circuit Isolator, Marine Approved
ML-1140.SCI/M	Maxlogic Intelligent Addressable Multisensor (Photo-Electric Smoke + Heat) Detector with short circuit isolator, Marine Approved
ML-1130BS/M	Maxlogic Intelligent Addressable System BS Class Heat Detector, Marine Approved
MG-9100/M	Mavigard Intelligent Addressable Photo-Electric Smoke Detector (Marine Approved)
MG-9300/M	Mavigard Intelligent Addressable Heat Detector (Marine Approved)
MG-9400/M	Mavigard Intelligent Addressable Multisensor Detector (Photoelectric Smoke+Heat), Marine Approved

#### **ACCESSORY MODELS**

Product Code	Description
ML-0140/M	Maxlogic Detector Mounting Base, Marine Approved
ML-0141/M	Maxlogic Mounting Base With Buzzer for Maxlogic Detectors, Marine Approved
ML-0144/M	Maxlogic Mounting Base (B class), Marine Approved
MG-3510/M	Mavigard Intelligent Addressable Mounting Base, White, Marine Approved
MG-3530/M	Mavigard Mounting Base c/w Buzzer, Marine Approved
MG-3600/M	Mavigard Detector Accessories Recessed Mounting Base, Marine Approved
MG-3700/M	Mavigard Weatherproof Back Box For Fire Detectors, Marine Approved
ML-0121/M	Maxlogic Surface Mounting Back Box For Fire Detectors, Marine Approved
ML-0120/M	Maxlogic Surface Mounting Back Box, Marine Approved
MG-4000.A/M	Mavigard Addressable System Remote Indicator, Includes MG-4100 Mounting Box, Marine Approved
ML-0150/M	Maxlogic Accessories For Fire Detectors Recessed Mounting Base, White [Excl. Detector and Base], Marine Approved



## High Technology Intelligent Solutions...

# Maxlogic Intelligent Addressable Aspirating Smoke Detector

It is designed for the areas where detection of smoke should be extremely sensitive in air ducts. It has suitable options in addressable and conventional systems types according to usage area.

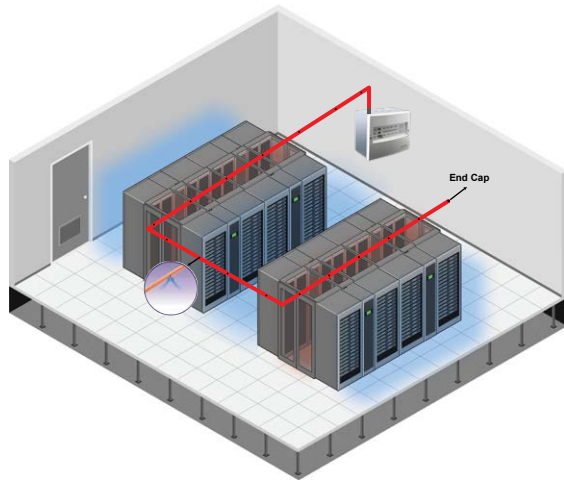


ML-1180.SCI/M  
Maxlogic Intelligent  
Addressable Aspirating Smoke  
Detector, Short Circuit Isolator,  
Marine Approved

- ▶ Mathematical modelling technology
- ▶ Short circuit isolator option
- ▶ Compatible with EN 54-20 and EN 54-17 standards
- ▶ Ability to work Class A, Class B and Class C sensitivity
- ▶ Wide detection range: 0,005% - 20% (obs/m)
- ▶ High sensitivity resolution: 0.0001% (obs/m)
- ▶ Ability to separate dust and smoke
- ▶ Ability to work Single, U-Type, 2U-Type pipe installation systems
- ▶ Ability to give alarm with 4 Alarm levels: Warning, Pre Alarm, Fire 1 and Fire 2
- ▶ Adjustable fan speeds (1-10 levels)
- ▶ 4 Alarm output relay (100mA @30V), 2 Fault Output relay (100mA @30V)
- ▶ Operating status control via LED indicators
- ▶ Remote control function: Silence, Fault, Reset, Alarm
- ▶ IP30 protection level
- ▶ Programming over USB-PC



# Pipe Installation Systems

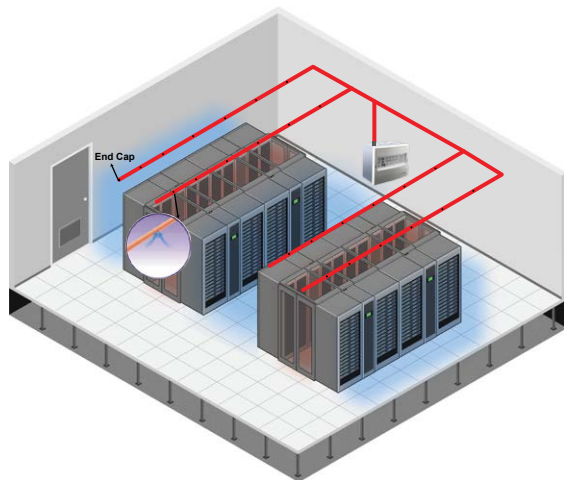
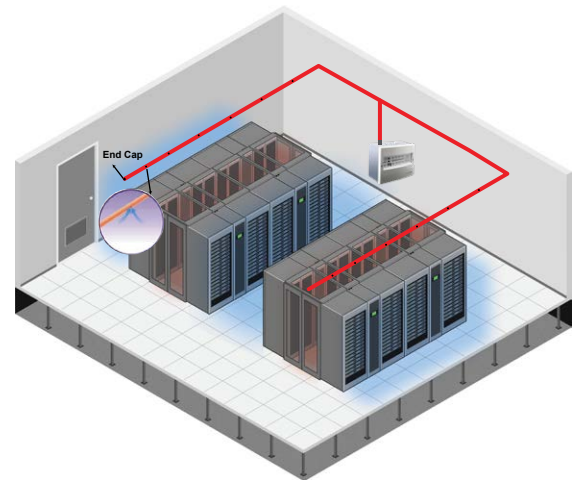


## Single Pipe Installation Systems

- Sampling pipe length: < 150m
- Max hole number: 60
- Hole diameter: 2mm
- Ending Cover: Flow can be accelerated with 4-8mm hole.

## U-Type Pipe Installation Systems

- Sampling Pipe Length: < 250m (every each pipe < 125m)
- Max hole number: Total 60 (every each pipe 30)
- Hole diameter: 2mm
- Ending Cover: Flow can be accelerated with 4-8mm hole.



## 2U-Type Pipe Installation Systems

- Sampling Pipe Length: < 400m (Every each pipe < 100m)
- Max hole number: Total 60 (Every each pipe 15)
- Hole diameter: 2mm
- Ending Cover: Flow can be accelerated with 4-8mm hole.

# Usage Areas

- ▀ Aircraft hangar
- ▀ Arsenals
- ▀ IT centers
- ▀ Data banks
- ▀ Valuable document archives
- ▀ Intensive care rooms
- ▀ Laboratories
- ▀ Museum and art galleries
- ▀ Historical houses and historical artifacts
- ▀ Scientific research centers
- ▀ Warehouses
- ▀ Petrochemical facilities
- ▀ Transformer buildings
- ▀ Telecommunication centers and similar structures

## MODELS

Product Code	Description
ML-1180/M	Maxlogic Intelligent Addressable Aspirating Smoke Detector, Marine Approved
ML-1180.SCI/M	Maxlogic Intelligent Addressable Aspirating Smoke Detector with Short Circuit Isolator, Marine Approved
ML-2180/M	Maxlogic Conventional Aspirating Smoke Detector, Marine Approved

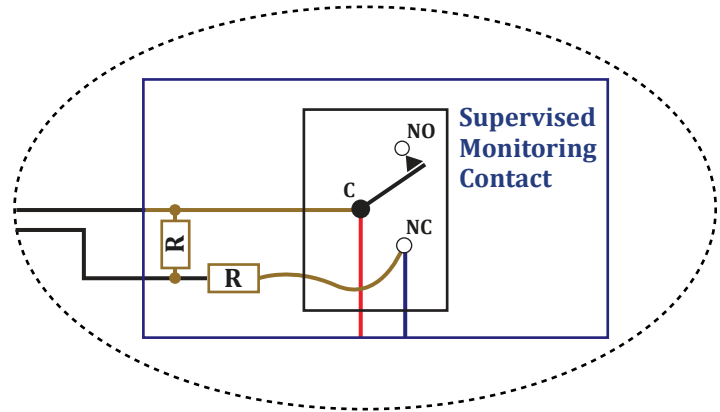


## Managing and Control in Your Hands...

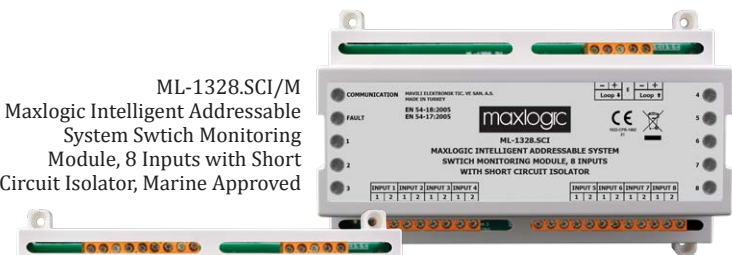
# Intelligent Addressable System Input / Output Modules

Supervised Input/Output (I/O), Relay Control, Contact Monitoring, Siren Control, Zone, offering superior operating performance with VIP communication protocol. Control modules can be programmed to work in cause and effect scenarios to achieve fire automation.

- Compliant with EN 54-18 and EN 54-17 standards
- Model option with short circuit isolator
- Operating status control via LED indicators
- Easy assembly with rail system



ML-1328.SCI/M  
Maxlogic Intelligent Addressable System Switch Monitoring Module, 8 Inputs with Short Circuit Isolator, Marine Approved



ML-1348.SCI/M  
Maxlogic Intelligent Addressable Zone Control Module, 8 Input with Short Circuit Isolator, Marine Approved



ML-1352.SCI/M  
Maxlogic Intelligent Addressable System 4 Zone Monitor, 4 Sounder Control Module with Short Circuit Isolator, Marine Approved



Maxlogic Intelligent Addressable System Modules offers a selection of needs with; Relay Control with 8 outputs, Contact Monitoring with 8 inputs, Sounder Control with 8 outputs and Zone Control Modules with 8 inputs.

There are also options for 4 Contact Monitoring and 4 Relay Control Modules, as well as 4 Zone Monitoring and 4 Sounder Control Modules for the needs of the area.

With the LEDs on the modules, the status of the input/output lines can be easily monitored, along with the Communication and fault statuses.



ML-1373.SCI/M  
Maxlogic Interface Module,  
2 Zone Monitor Inputs,  
1 Sounder Control Output,  
SCI, Marine Approved

ML-1366.SCI/M  
Maxlogic Addressable 4/2 I/O  
Module, 4 Switch Monitor, 2 Relay  
Output, SCI, Marine Approved

Addressable Relay Control with rail mounting convenience, Featuring 1 output capacity, Contact Monitoring with 1 input capacity, Siren Control with 1 output capacity, and Zone Control Modules with 1 input capacity are included.

LED indicators on the modules allow monitoring of System Active, Communication, Fault, and Alarm statuses.

Input/Output (I/O) modules in this model option; 2 zone monitoring inputs, 1 siren output or 2 dry contact monitoring inputs and 1 It offers the opportunity to use it as a dry contact relay output.

With the 4/2 Input/Output (I/O) module; 4 dry contact monitoring inputs and 2 Dry contact relay output selection can be made.

## Loop Powered Modules

Relay Control and Contact Monitoring, as well as Input/Output (I/O) Modules containing Relay Control and Contact Monitoring, receive their power from the system and can be programmed to operate in cause-and-effect scenarios. Within the fire automation system, desired environmental systems can be monitored with contact monitoring inputs, and relay outputs can be used to control the desired environmental systems.

Contact monitoring inputs are used to monitor external dry contact (voltage-free) relay outputs. The contact has both normally open and normally closed operating features. The type of event the panel will detect when the contact status changes can be determined by the user.

A double-pole dry contact (voltage-free) relay output, capable of withstanding a maximum current of 30V DC, 1A, has both normally open and normally closed contact positions. The positions can be configured to provide output based on the type of event determined by the user. Short circuit isolator (SCI) models isolate the line in the event of a short circuit on the connected circuit, thanks to the built-in short circuit isolator.

## External Power Supply Modules

Sounder Control, Zone Monitoring, and Input/Output (I/O) Modules containing Siren Control and Zone Monitoring require an external power source of 18-30V DC. Zone monitoring inputs are used to monitor detectors and buttons operating in conventional systems. The type of event the panel will detect when the input status changes can be determined by the user.

It can be activated as desired within the fire automation using 24V DC 500mA sounder outputs. It can be configured to provide output based on the type of event determined by the user. Short circuit isolator (SCI) models isolate the line in the event of a short circuit on the connected circuit, thanks to the built-in short circuit isolator.

LOOP POWERED MODULE MODELS		EXTERNAL POWERED MODULE MODELS		ACCESSORY MODELS	
Product Code	Description	Product Code	Description	Product Code	Description
ML-1318/M	Maxlogic Intelligent Addressable System Relay Control Module, 8 Output, Marine Approved	ML-1338/M	Maxlogic Intelligent Addressable System Sounder Control Module, 8 Output, Marine Approved	ML-1380/M	Maxlogic Addressable Short Circuit Module, Marine Approved
ML-1318.SCI/M	Maxlogic Intelligent Addressable System Relay Control Module, 8 Output with Short Circuit Isolator, Marine Approved	ML-1338.SCI/M	Maxlogic Intelligent Addressable System Sounder Control Module, 8 Output with Short Circuit Isolator, Marine Approved	ML-1390/M	Maxlogic Addressable Short Circuit Module, Marine Approved
ML-1328/M	Maxlogic Intelligent Addressable System Switch Monitor Module, 8 Input, Marine Approved	ML-1348/M	Maxlogic Intelligent Addressable System Zone Control Module, 8 Input, Marine Approved	ML-0320/M	Maxlogic Intelligent Addressable System 2-I/O Module Protection Box, Marine Approved
ML-1328.SCI/M	Maxlogic Intelligent Addressable System Switch Monitor Module, 8 Input with Short Circuit Isolator, Marine Approved	ML-1348.SCI/M	Maxlogic Intelligent Addressable System Zone Control Module, 8 Input with Short Circuit Isolator, Marine Approved		
ML-1351/M	Maxlogic Intelligent Addressable System 4 Switch Monitor, 4 Relay Control Module, Marine Approved	ML-1352/M	Maxlogic Intelligent Addressable System 4 Zone Monitor, 4 Sounder Control Module, Marine Approved		
ML-1351.SCI/M	Maxlogic Intelligent Addressable System 4 Switch Monitor, 4 Relay Control Module with Short Circuit Isolator, Marine Approved	ML-1352.SCI/M	Maxlogic Intelligent Addressable System 4 Zone Monitor, 4 Sounder Control Module with Short Circuit Isolator, Marine Approved		
ML-1361/M	Maxlogic Addressable Relay Control Module, 1 Output, Marine Approved	ML-1371/M	Maxlogic Interface Module, 1 Sounder Control Output, 1 Output, Marine Approved		
ML-1361.SCI/M	Maxlogic Addressable Relay Control Module, SCI, Marine Approved	ML-1371.SCI/M	Maxlogic Interface Module, 1 Sounder Control Output, Short Circuit Isolator, Marine Approved		
ML-1362/M	Maxlogic Addressable Switch Monitor Module, 1 Input, Marine Approved	ML-1372/M	Maxlogic Interface Module, Zone Monitor Module, 1 Input, Marine Approved		
ML-1362.SCI/M	Maxlogic Addressable Switch Monitor Module, SCI, Marine Approved	ML-1372.SCI/M	Maxlogic Interface Module, Zone Monitor Module, Short Circuit Isolator, Marine Approved		
ML-1363/M	Maxlogic Addressable 2/1 I/O Module, 2 Switch Monitor, 1 Relay Output, Marine Approved	ML-1373/M	Maxlogic Interface Module, 2 Zone Monitor Inputs, 1 Sounder Control Output, Marine Approved		
ML-1363.SCI/M	Maxlogic Addressable 2/1 I/O Module, 2 Switch Monitor, 1 Relay Output, SCI, Marine Approved	ML-1373.SCI/M	Maxlogic Interface Module, 2 Zone Monitor Inputs, 1 Sounder Control Output, SCI, Marine Approved		
ML-1366/M	Maxlogic Addressable 4/2 I/O Module, 4 Switch Monitor, 2 Relay Output, Marine Approved				
ML-1366.SCI/M	Maxlogic Addressable 4/2 I/O Module, 4 Switch Monitor, 2 Relay Output, SCI, Marine Approved				
MG-6700/M	Maxlogic Intelligent Addressable Mains Relay Controller, 1 Way Output, 8A, Marine Approved				





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## Advanced Technology Smart Solutions...



# Maxlogic Intelligent Addressable Smoke Damper Modules

Developed by Mavili Electronics, Smoke Damper Module provides optimum and integrated operation of ventilation systems and fire alarm systems. Maxlogic Smoke Damper Module eliminates the need to manage a smoke damper with **multiple relays and switch monitoring modules**. Maxlogic Smoke Damper Module can perform multiple tasks with a single address in intelligent addressable fire alarm systems.



ML-1356.SCI/M  
Maxlogic Intelligent Addressable System  
Smoke Damper Module, 1 Output, 24V DC,  
Short Circuit Isolator, Marine Approved

- ▶ LEDs that give the operating information of the module: Green LED for power, Yellow LED for fault, Red LED for alarm, green LED lighting up continuously when damper is open or close (green led flashing when damper is opened/closed)
- ▶ 220V AC, 24V DC and 24V AC operating voltage options to suitable for all smoke dampers
- ▶ On / Off buttons for manually opening and closing the damper, On / Off inputs for switching on and off with remote control
- ▶ Open / Short circuit monitoring of damper remote control inputs
- ▶ Display of Open, Closed and Damper Fault positions of the damper module cover
- ▶ Open, Closed and Damper Fault locations of the dampers can be seen from the panel event logs and the screen of the panel
- ▶ Damper output line, remote control input, position monitoring input, detection of open / short circuit faults
- ▶ Comply to **EN 54-18**, models with short circuit isolators comply with **EN 54-17** standards
- ▶ **Controlling the motors of the damper and monitoring the position switches can be achieved with a single address.**



# Smoke Damper Control Panels

Smoke damper control panels are designed for monitoring and controlling smoke dampers. They can be programmed to operate within the scope of a fire scenario, allowing for fire automation.



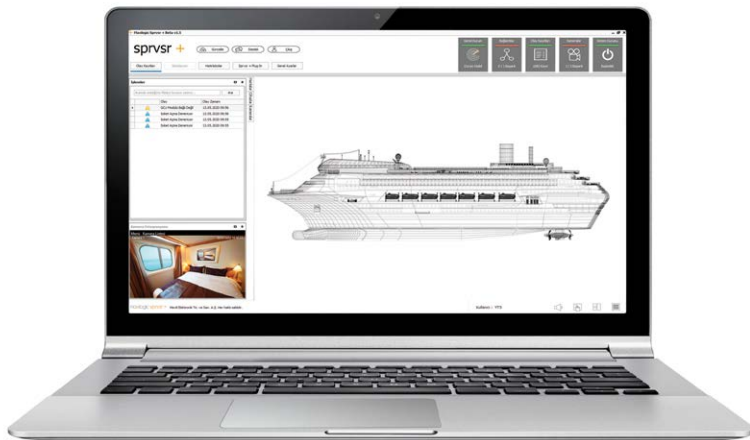
**ML-1354/M**  
Maxlogic Intelligent  
Addressable System Smoke  
Damper Control Panel, 16 way  
I/O Module, Marine Approved

**ML-1355/M**  
Maxlogic Intelligent Addressable  
System Smoke Damper Control Panel  
with Toggle Switch, 16way I/O Module,  
Marine Approved

- Compatible with EN 54-4 and EN 54-18 standards
- With the position information received from the smoke dampers, Open/ Closed / Fault conditions can be displayed with LED indicators
- The 5 degree position of the position switch indicates "OFF STATUS" and the 85 degree position indicates "ON STATUS"
- Easily programmable with Loop Manager+ software

- In all cases except the Closed or Open status of the dampers; At the end of the timeout period that can be determined by the user, an fault message can be given with the LED indicator.

## Smoke Damper Control with SPRVSR+ Software



- The damper opening and closing times can be adjusted (30, 60, 120, 240 seconds) and the monitoring inputs for damper position can be set to Active/Inactive, with the option to introduce delays to these monitoring inputs.
- If a damper fails to change position within a specified delay, it will be displayed as a damper fault on the control panel screen.
- Monitoring of Open, Closed and Damper Fault positions of Smoke Dampers
- Open / Closed commands can be send to Smoke Dampers
- Smoke Dampers can be monitored for "Fault" conditions

- Loop Manager+ software configuration can provide module Zone Numbers and Location Information
- Inclusion of scenarios to enable Smoke Dampers to be opened and smoke evacuation at the location of a fire. Also, the Smoke Dampers can be turned off in other rooms connected to the channel to prevent smoke from entering other rooms.
- Scenario to prevent the entry of smoke into escape routes such as stairs by operating the Pressurized Damper in case of fire
- For security reasons, if needed, 1st Level and 2nd Level delay assignments can be made to enable smoke dampers to open and close with a delay.

### CONTROL PANEL MODELS

Product Code	Description
ML-1353/M	Maxlogic Intelligent Addressable System 16 way I/O Panel, Marine Approved
ML-1354/M	Maxlogic Intelligent Addressable System Smoke Damper Control Panel, 16 way I/O Module, Marine Approved
ML-1355/M	Maxlogic Intelligent Addressable System Smoke Damper Control Panel with Toggle Switch, 16 way I/O Module, Marine Approved

### MODULE MODELS

Product Code	Description
ML-1356/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V DC, Marine Approved
ML-1357/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V AC, Marine Approved
ML-1358/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 220V AC, Marine Approved
ML-1356.SCI/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V DC, Short Circuit Isolator, Marine Approved
ML-1357.SCI/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V AC, Short Circuit Isolator, Marine Approved
ML-1358.SCI/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 220V AC, Short Circuit Isolator, Marine Approved



# Announce / Alarm Matrix Panel

The Alarm/Announcement Matrix Panel facilitates the integration of general announcement and audible alarm systems with intelligent-addressable fire alarm systems.



ML-5020/M  
Maxlogic Announce / Alarm Matrix Panel,  
19", 3U Rack Mounted with Announce Power  
Module and Announce Output Module,  
Marine Approved

- Compatible with 19", 3U rack
  - Modular structure expandable up to 16 modules
  - Modules can be selected as announce microphone input and / or programmable alarm / warning output
  - Ability to perform announcement with 1 announce microphone to 32 announce zone
  - Ability to perform announcement with 60 announce microphone to 8 announce zone
  - Possibility to perform announcement with pre-recorded messages in required zones
  - Notification of communication and fault conditions with LED
  - Internal Power Supply
- Indication of the active announcement module and active alarm/alert output module is provided through LEDs.
  - With the internal announcement module in intelligent-addressable fire alarm panels, authorized personnel can make live announcements to the desired zones of the building through the existing announcement system in case of a fire or emergency.
  - Making live announcements to the desired area of the building via the existing announcement system and/or making automatic announcements with recorded voice recordings.

MODELS	
Product Code	Description
ML-5020/M	Maxlogic Announce / Alarm Matrix Panel, 19", 3U Rack Mounted with Announce Power Module and Announce Output Module, Marine Approved
ML-5020.AI	Maxlogic Announce Input Module
ML-5020.PO	Maxlogic Programmable Alarm/Alert Output Module
MLY-5001	Maxlogic Announce/Alarm Matrix Blank Panel





**Designed for Harsh  
Environment  
Conditions...**

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## Surface Mounting Back Box

Surface mounting back box is designed for Protection from harsh ML-0121 weather conditions.



ML-0121/M  
Maxlogic Surface Mounting Back Box  
For Fire Detectors, Marine Approved

MG-3700/M  
Mavigard Weatherproof  
Back Box For Fire Detectors,  
Marine Approved

### MODELS

Product Code	Description
ML-0121/M	Maxlogic Surface Mounting Back Box For Fire Detectors, Marine Approved
MG-3700/M	Mavigard Weatherproof Back Box For Fire Detectors, Marine Approved

## Addressable Corded Emergency Panic Button

Designed to relay emergency situations such as those occurring in bathrooms and WC areas of hospitals, hotels, and similar buildings, this system is engineered to transmit alarms seamlessly and faultlessly through an addressable system. It can automatically reset without requiring any manual intervention.



ML-1720.SCI/M  
Maxlogic Corded Emergency Panic  
Button with Short Circuit Isolator,  
Marine Approved

- ▶ Easy access and usability
- ▶ Convenient and ergonomic design
- ▶ Suitable for both recessed and surface mounting
- ▶ Does not require mechanical resetting

### MODELS

Product Code	Description
ML-1720/M	Maxlogic Corded Emergency Panic Button, Marine Approved
ML-1720.SCI/M	Maxlogic Corded Emergency Panic Button with Short Circuit Isolator, Marine Approved





# Aesthetic and Technologic Genius...

## Intelligent Addressable Loop-powered Base Sounder / Sounder Beacon / Mounting Base c/w Buzzer

Alarm devices that give audible and/or visual warning in case of fire, suitable for indoor use. It can be programmed to output at any time within the cause-effect scenario. When the detector with the base sounder gets alarm, the internal sounder gets activated and while the detector with base sounder & beacon gets alarm, internal beacon gets activated.



ML-1101/M  
Maxlogic Intelligent Addressable  
Loop Powered Base Sounder,  
Marine Approved

ML-1102/M  
Maxlogic Intelligent Addressable  
Loop Powered Base Sounder  
Beacon, Marine Approved

ML-0141/M  
Maxlogic Mounting Base With  
Buzzer for Maxlogic Detectors,  
Marine Approved

- ▶ Compatible with EN 54-3 and EN 54-23
- ▶ Specially designed for indoor use Loop-powered
- ▶ 85 dB sound output, 8 tones and volume control
- ▶ It can be used as a stand alone sounder/sounder beacon
- ▶ Its primary application is to be installed under
- ▶ Intelligent Analogue addressable smoke and heat detectors to provide both detection and alarm at the same point, reducing wiring and installation costs

MODELS	
Product Code	Description
ML-1101/M	Maxlogic Intelligent Addressable Loop Powered Base Sounder, Marine Approved
ML-1102/M	Maxlogic Intelligent Addressable Loop Powered Base Sounder Beacon, Marine Approved
ML-0141/M	Maxlogic Mounting Base With Buzzer for Maxlogic Detectors, Marine Approved



# Intelligent Addressable System Sounder / Beacon / Sounder & Beacon / Weatherproof

Intelligent-addressable sounders, beacons, and sounders with beacons; weatherproof sounders, beacons, and sounders with beacons are auditory warning devices developed for intelligent-addressable systems. They provide superior performance and operate seamlessly with the VIP communication protocol.



- Compatible with EN 54-3 / EN 54-23
- Addressing convenience through software with the addressing device.
- Easily programmable by LoopManager
- Able to integrate into the cause effect scenarios
- IP33/IP65 high protection class options
- Aesthetic design
- Suitable for outdoor use
- Compatible with MAXLOGIC series addressable panels
- PCB protected against corrosion by metal case
- Production by surface mounting technology
- Outstanding and stable running performance
- Adjustable different 32 voice tone options

## IP33 CLASS SOUNDER MODELS

Product Code	Description
ML-1440/M	Maxlogic Intelligent Addressable System Sounder, Weatherproof (IP33), Marine Approved
ML-1440.SCI/M	Maxlogic Intelligent Addressable System Sounder, Weatherproof (IP33), Short Circuit Isolator, Marine Approved
ML-1450/M	Maxlogic Intelligent Addressable System Beacon, Weatherproof (IP33), Marine Approved
ML-1450.SCI/M	Maxlogic Intelligent Addressable System Beacon, Weatherproof (IP33), Short Circuit Isolator, Marine Approved
ML-1460/M	Maxlogic Intelligent Addressable System Sounder & Beacon, Weatherproof (IP33), Marine Approved
ML-1460.SCI/M	Maxlogic Intelligent Addressable System Sounder & Beacon, Weatherproof (IP33), Short Circuit Isolator, Marine Approved

## IP65 CLASS SOUNDER MODELS

Product Code	Description
ML-1470/M	Maxlogic Intelligent Addressable System Sounder, Weatherproof (IP65), Marine Approved
ML-1470.SCI/M	Maxlogic Intelligent Addressable System Sounder, Weatherproof (IP65), Short Circuit Isolator, Marine Approved
ML-1480/M	Maxlogic Intelligent Addressable System Beacon, Weatherproof (IP65), Marine Approved
ML-1480.SCI/M	Maxlogic Intelligent Addressable System Beacon, Weatherproof (IP65), Short Circuit Isolator, Marine Approved
ML-1490/M	Maxlogic Intelligent Addressable System Sounder & Beacon, Weatherproof (IP65), Marine Approved
ML-1490.SCI/M	Maxlogic Intelligent Addressable System Sounder & Beacon, Weatherproof (IP65), Short Circuit Isolator, Marine Approved

## SOUNDER MODELS

Product Code	Description
ML-1410/M	Maxlogic Addressable Sounder, Marine Approved
ML-1410.SCI/M	Maxlogic Addressable Sounder with Short Circuit Isolator, Marine Approved
ML-1420/M	Maxlogic Addressable Strobe, Marine Approved
ML-1420.SCI/M	Maxlogic Addressable Strobe with Short Circuit Isolator, Marine Approved
ML-1422.SCI/M	Maxlogic Intelligent Addressable Ceiling Type (C Class, IP65) Beacon with Short Circuit Isolator, Marine Approved
ML-1424.SCI/M	Maxlogic Intelligent Addressable Wall Type (W Class, IP65) Beacon with Short Circuit Isolator, Marine Approved
ML-1430/M	Maxlogic Addressable Sounder Strobe, Marine Approved
ML-1430.SCI/M	Maxlogic Addressable Sounder Strobe with Short Circuit Isolator, Marine Approved

# Intelligent Addressable Manual Call Point

Addressable fire alarm manual call points, designed for ease of use and according to the EN 54-11 / EN 54-17 standards, provide superior and stable performance with an innovative test switch, advanced reset structure, and convenient accessories.



- Compatible with EN 54-11 / EN 54-17
- Suitable for Surface mount and flush mount
- Microprocessor controlled
- Short circuit isolator models
- IP 65 protection class option
- LED indicated activation
- Easy resettable
- Outstanding and stable running performance
- Interrupt feature for detecting fire alarm with in 1.5 seconds
- Production with surface mounting technology

## MODELS

Product Code	Description
ML-1710/M	Maxlogic Intelligent Analogue Addressable System Manual Call Point, Marine Approved
ML-1710.SCI/M	Maxlogic Intelligent Analogue Addressable System Manual Call Point With Short Circuit Isolator, Marine Approved
ML-1731/M	Maxlogic Intelligent Addressable Fire Alarm Manual Call Point, Resettable, Weatherproof (IP65), Marine Approved
ML-1731.SCI/M	Maxlogic Intelligent Addressable Fire Alarm Manual Call Point, Resettable, Weatherproof (IP65), Short Circuit Isolator, Marine Approved
ML-0710/M	Maxlogic Protection Cover for Manual Call Point, Marine Approved

## Intelligent and Powerful...

# SMPS Power Supply

Switched-mode power supplies (SMPS) produced with surface mounting technology, featuring a sensitive and stable operational structure, are compatible with all Maxlogic & Navigard series products.



ML-05110/M  
Maxlogic Intelligent SMPS Power  
Supply 10A , Marine Approved

- Compatible with EN 54-4
- In the case of electrical failure, it's supplied with battery
- Automatic battery charge circuit
- Battery temperature measurement and automatic adjustment of battery
- Charge voltage with thermistor
- Earth Fault, battery fault (Charge error, battery low voltage, no battery connection) fuse fault and mains fault can be detected and monitored via power supply
- Dry contact output report the case of faults
- Protection feature against short circuits and potential faults in the city grid

### MODELS

Product Code	Description
ML-0515/M	Maxlogic Intelligent SMPS Power Supply 5A, Marine Approved
ML-05110/M	Maxlogic Intelligent SMPS Power Supply 10A, Marine Approved



## Stable Detection and Architectural Integrity...

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# Recessed Mounting Base & Address Numerators

Recessed mounting base is used for mounting conventional and addressable detectors on false ceilings of various types (like metal, plaster etc.). The base allows creating more aesthetic architectural applications. Bases are produced from ABS and have the same color as detectors. Bases are mounted into ceiling material with minimum two clamps and stainless steel screws.

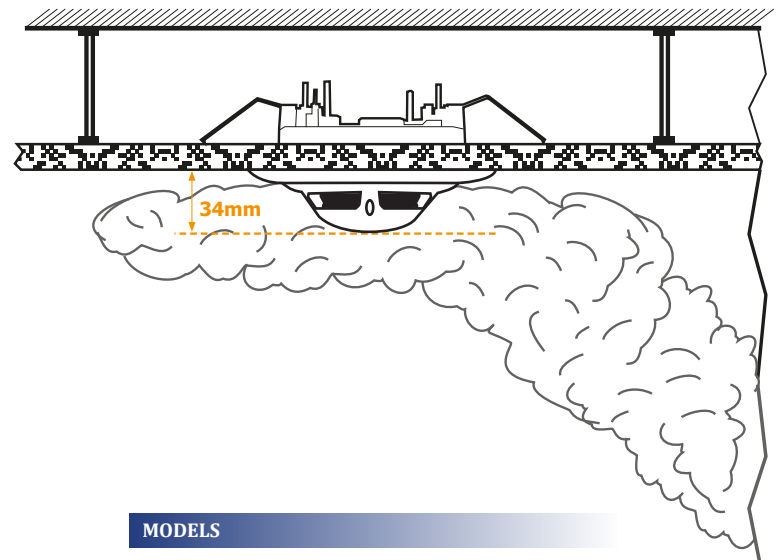
They have an ergonomic design and easy in implementing. In usual ceilings where placed addressable devices, they can be installed directly under the mounting bases of the detectors, and in false ceilings - under the false ceiling unit. Address numerators are designed to provide great convenience in finding the right device, in case of fault, malfunction, contamination, etc. Compatible with all mounting bases of Maxlogic / Mavigard detectors and ceiling additions.



ML-0150/M  
Maxlogic Accessories For  
Fire Detectors Recessed  
Mounting Base,  
Marine Approved



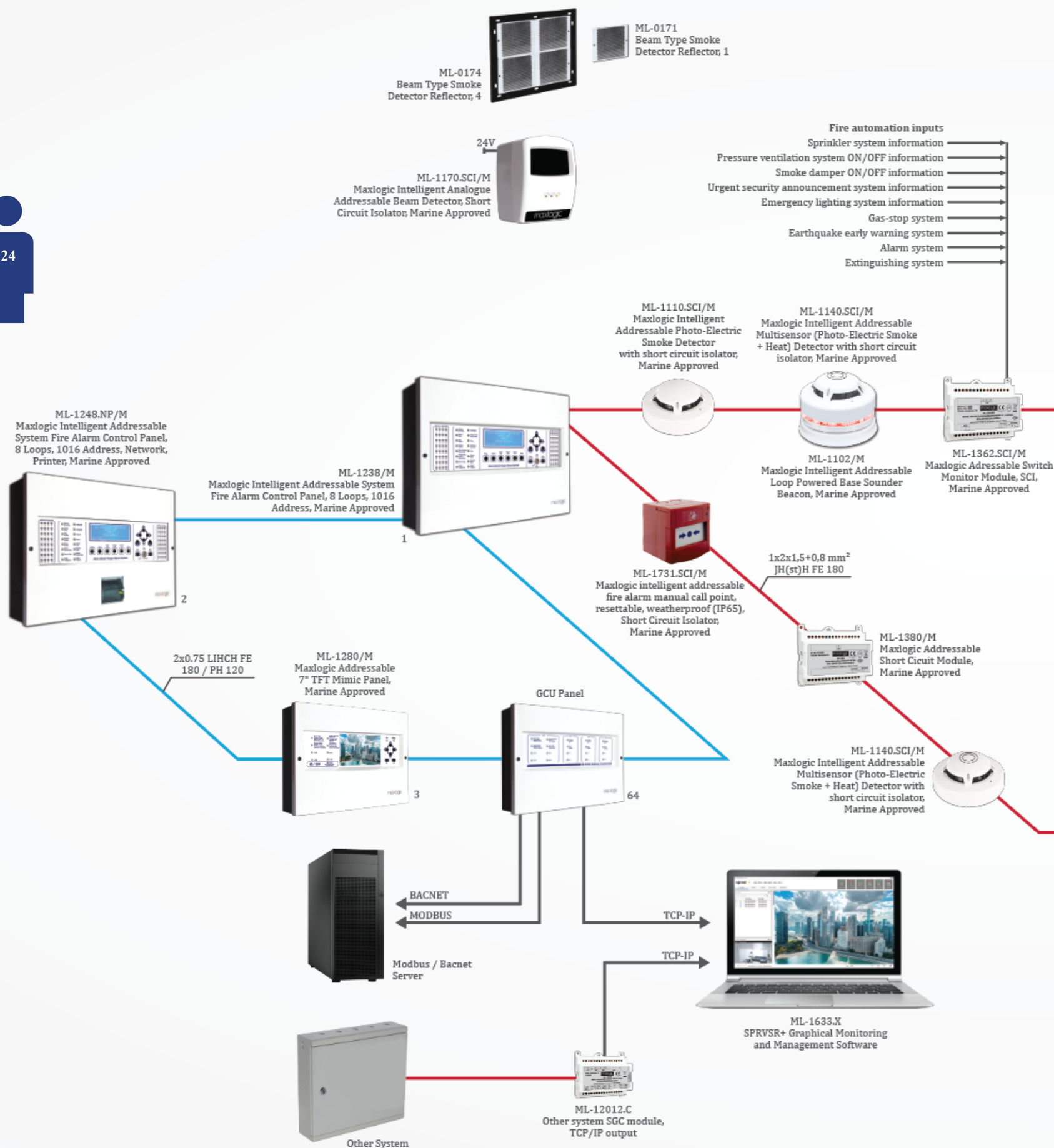
ML-0101  
Address Numerator and  
Labels (for 127 devices)



### MODELS

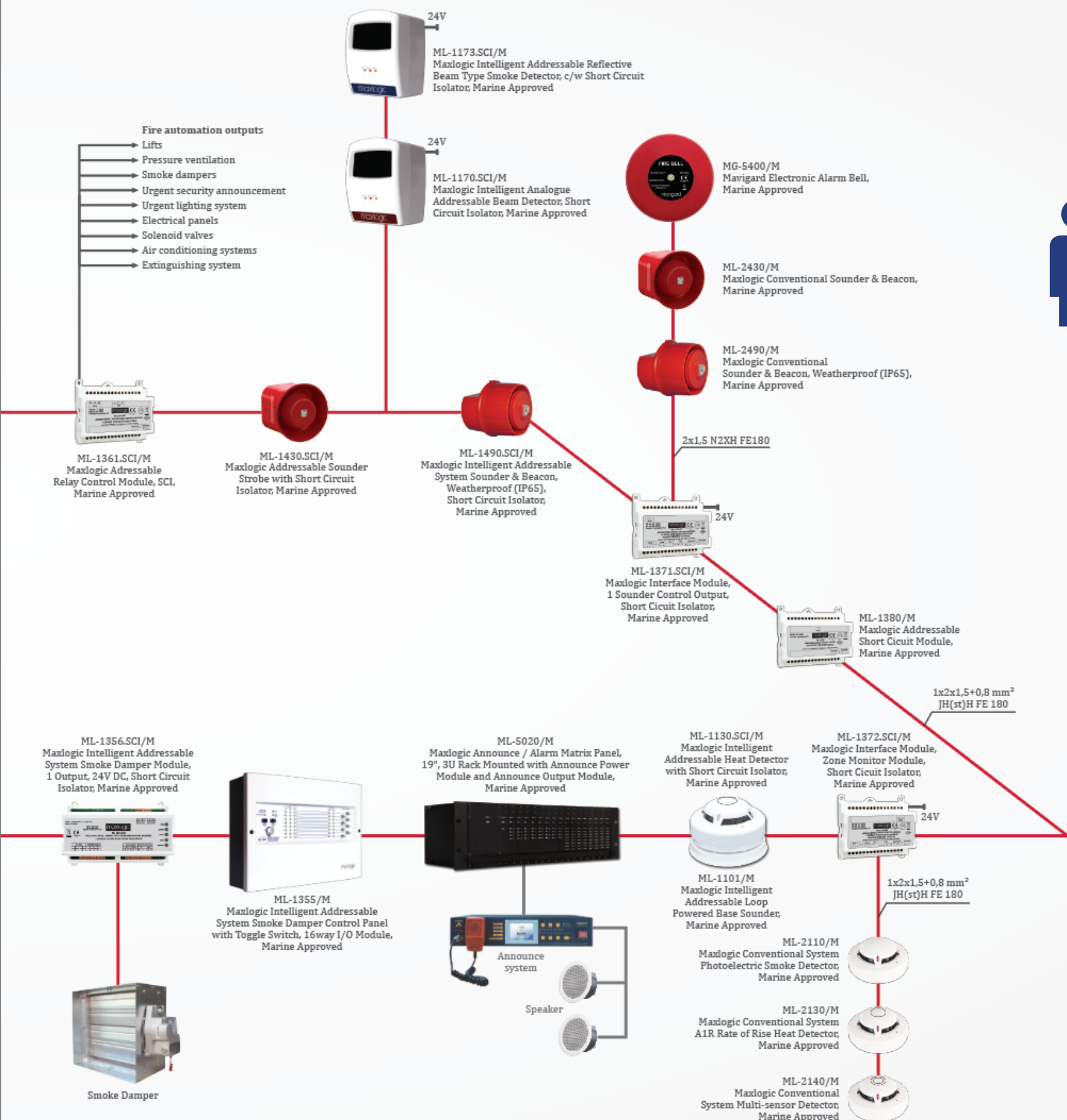
#### Product Code Description

ML-0150/M	Maxlogic Accessories For Fire Detectors Recessed Mounting Base, White[Excl. Detector and Base], Marine Approved
ML-0101	Maxlogic Address Numerator and Label Set
MLY-0102	Address Numerator and Label (For 1 Device)



- Up to 64 panels and/or repeater panels can be assembled with CAN protocol into a network.
- By the help of this feature, Maxlogic & Mavigard system is used easily in big buildings, hospitals, universities etc. projects.
- Max. 130.048 devices can be used in Maxlogic Addressable Fire Detection System.





- ▶ Events can be monitored from any panel in Network.
- ▶ Controlling all other panels from any panel.
- ▶ Creating cause-effect scenarios between devices that is connected to panels in network.

## Conventional System That Can Work In a Network...

# Conventional Fire Detection and Alarm System

The ML-221XX/M series conventional fire alarm control panels are designed to provide economical solutions for medium and big applications with modern exterior design and Surface mount technology production technology.



ML-22116/M  
Maxlogic Conventional  
Fire Alarm Control Panel  
16 zone, Marine Approved

- ▶ Compatible with EN 54-2 and EN 54-4 2, 4, 8 and 16 zones
- ▶ Up to 32 repeater panels and/or fire panels assembled into a network with using repeater panel
- ▶ 230V AC 50 Hz power supply input
- ▶ Panel status can be monitored via PC reset, alarm, alarm silence commands can be sent to panel, zone test and disable features can be performed
- ▶ Delay can be assigned to zones and sounders
- ▶ Up to 1000 events log memory
- ▶ Relay module 8-way (provides zonal relay output)
- ▶ Sounder module 8-way (provides zonal sounder output)
- ▶ Easy event log transfer by RS-485 port with computer program

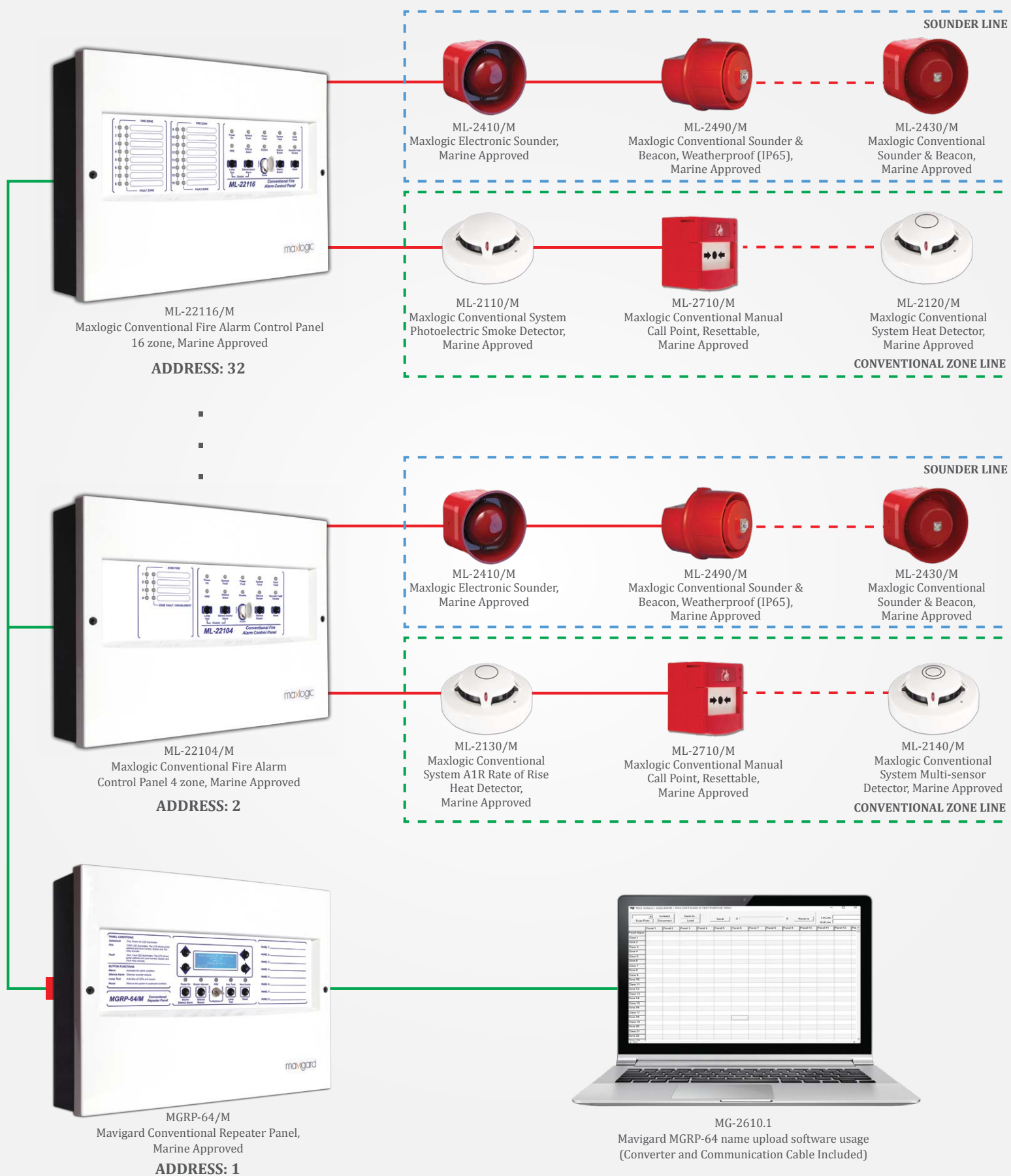
### PANEL MODELS

Product Code	Description
ML-22102/M	Maxlogic Conventional Fire Alarm Control Panel 2 zone, Marine Approved
ML-22104/M	Maxlogic Conventional Fire Alarm Control Panel 4 zone, Marine Approved
ML-22108/M	Maxlogic Conventional Fire Alarm Control Panel 8 zone, Marine Approved
ML-22116/M	Maxlogic Conventional Fire Alarm Control Panel 16 zone, Marine Approved

### PANEL MODELS

Product Code	Description
ML-2222/M	Maxlogic Conventional Fire Alarm Control Panel 2 zone, Marine Approved
ML-2224/M	Maxlogic Conventional Fire Alarm Control Panel 4 zone, Marine Approved
ML-2228/M	Maxlogic Conventional Fire Alarm Control Panel 8 zone, Marine Approved
MGRP-64/M	Mavigard Conventional Repeater Panel, Marine Approved





- Fire and fault are monitored through zone LEDs and piezoelectric buzzer
- Sounder, fault and fire relay outputs

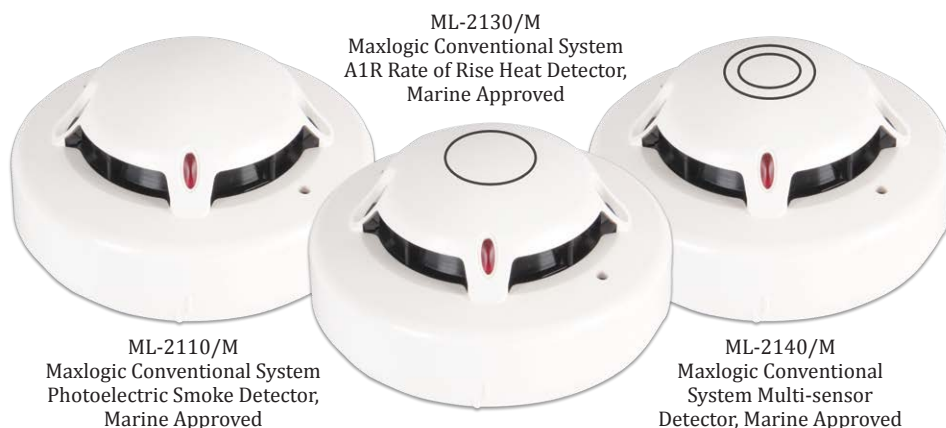
- Zones can be tested with one-man, through zone test feature
- Specific zones and/or sounder outputs can be disabled through zone disable and sounder disable features

- Stable sensitivity
- Protection from electromagnetic interferences

## New Perspective at Detection Technology...

# Conventional Fire Alarm Detectors

ML-21XX series fire detectors, designed for maximum protection, offer sensitive and reliable detection performance, along with easy installation and usage, and an ergonomic design.



ML-2110/M  
Maxlogic Conventional System  
Photoelectric Smoke Detector,  
Marine Approved

ML-2130/M  
Maxlogic Conventional System  
A1R Rate of Rise Heat Detector,  
Marine Approved

ML-2140/M  
Maxlogic Conventional  
System Multi-sensor  
Detector, Marine Approved

- ▶ Remote indicator output
- ▶ ML-0150/M series suspended ceiling unit compatible with
- ▶ Compatible with ML-0121/M series surface mounting back box
- ▶ 2 pcs red LEDs (the light lashes continuously in case of fire-situation, the light lashes once per 8 second in case of normal-status, the light lashes twice per 8 second in case of fault-status)

- ▶ Compatible with EN 54-5 and EN 54-7 standards
- ▶ Twin LED indicators for 360° view
- ▶ Microprocessor controlled design
- ▶ Compatible with ML-0140/M series mounting base c/w relay
- ▶ Compatible with ML-0141/M series mounting base c/w buzzer



### ML-0140/M Maxlogic Detector Base, For ML Series Detectors, Marine Approved

Compatible with Maxlogic conventional fire detectors. The contact metals of the socket are of stainless 301 quality and these contacts must be clipped to prevent non-contact.



### ML-0140/M Maxlogic Detector Base, For ML Series Detectors, Marine Approved

In the base with buzzer, the internal buzzer becomes active when the detector becomes active. It works fully compatible with detectors. It is designed to receive its energy from the detector line.





ML-2110/M  
Maxlogic Conventional System Photoelectric  
Smoke Detector, Marine Approved

#### ML-2120/M Maxlogic Conventional Fixed Heat Detector, Marine Approved

The fire alarm signal generated on reaching the threshold of 60°C. For special orders, fixed heat detectors with different threshold levels can also be manufactured.

#### ML-2130/M Maxlogic Conventional Combined Heat Detector, Marine Approved

The detector can work either as a fixed heat or rate of rise heat detector. Fire alarm signal is generated in case of 30°C/min or higher heat rise and/or on reaching the threshold of 60°C.



ML-2140/M  
Maxlogic Conventional System Multi-sensor  
Detector, Marine Approved

#### ML-2110/M Maxlogic Conventional Optical Smoke Detector, Marine Approved

Photo-electric smoke detector has an infrared photoelectric smoke detection chamber which utilizes the infrared light scatter sensing principle. The detection chamber is protected from dust, insects and other external interferences.



ML-2130/M  
Maxlogic Conventional System A1R Rate of  
Rise Heat Detector, Marine Approved

#### ML-2140/M Maxlogic Conventional Multi-Sensor (Optical Smoke+Temperature) Detector, Marine Approved

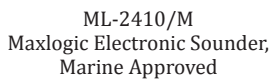
Multi-sensor has an infrared photoelectric smoke detection chamber utilizing the infrared light scatter sensing principle and a temperature-sensitive thermistor. The detection chamber is protected from dust, insects and other external interferences.

#### DETECTOR MODELS

Product Code	Description
ML-2110/M	Maxlogic Conventional System Photoelectric Smoke Detector, Marine Approved
ML-2120/M	Maxlogic Conventional System Heat Detector, Marine Approved
ML-2130/M	Maxlogic Conventional System A1R Rate of Rise Heat Detector, Marine Approved
ML-2140/M	Maxlogic Conventional System Multi-sensor Detector, Marine Approved
ML-2130BS/M	Maxlogic Conventional System Class BS Heat Detector with Mounting Base (ML-0144), Marine Approved
MGR-2100/M	Mavigard Conventional Photo-Electric Smoke Detector, with Relay Output, Marine Approved
MGR-2300/M	Mavigard Conventional Combined Heat (Rate of Rise) Detector, with Relay Output, Marine Approved
MGR-2400/M	Mavigard Conventional Fixed Heat Detector, with Relay Output, Marine Approved
MGR-2500/M	Mavigard Conventional Multisensor Detector (Photo-Electric Smoke + Heat) with Relay Output, Marine Approved
MGR-2400CS/M	Mavigard Conventional Fixed Heat Detector with Relay Output, 90°C, Marine Approved

#### ACCESSORIES MODELS

Product Code	Description
ML-0140/M	Maxlogic Detector Mounting Base, Marine Approved
ML-0141/M	Maxlogic Mounting Base With Buzzer For Maxlogic Detectors, Marine Approved
ML-0144/M	Maxlogic Mounting Base (B Class), Marine Approved
MG-3700/M	Mavigard Weatherproof Back Box For Fire Detectors, Marine Approved
ML-0121/M	Maxlogic Surface Mounting Back Box For Fire Detectors, Marine Approved
MG-3500/M	Mavigard Universal Mounting Base, White, Marine Approved
MG-3600/M	Mavigard Detector Accessories Recessed Mounting Base, Marine Approved
MG-3550/M	Mavigard Mounting Base (For MGR Series), Marine Approved
MG-3550CS/M	Mavigard Detector Mounting Base (C Class), Marine Approved
MG-4000/M	Mavigard Remote Indicator, Marine Approved
ML-0150/M	Maxlogic Accessories For Fire Detectors Recessed Mounting Base, White [Excl. Detector And Base], Marine Approved



Maxlogic series conventional sounders provide stable performance in indoor applications and are compatible with all conventional panels.

- ## SOUNDER MODELS

ML-2430/M  
Maxlogic Conventional Sounder &  
Beacon, Marine Approved

Maxlogic series conventional beacon / sounder & beacon generates audible and visual signal, in addition to these features.

- ## SOUNDER MODELS

ML-2490/M Maxlogic Conventional Sounder & Beacon, Weatherproof (IP65), Marine Approved	ML-2440/M Maxlogic Conventional Sounder, Weatherproof (IP33), Marine Approved
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Maxlogic series conventional sounders are weather-proof audible warning devices and suitable for outdoor use.

- ▶ Compatible with EN 54-3 and EN 54-23
- ▶ Adjustable different 32 voice tone options
- ▶ Adjustable flash frequency and coverage area
- ▶ IP33 / IP65 high protection class options
- ▶ Suitable for outdoor use
- ▶ White, strong LED flasher
- ▶ Microprocessor Controlled



# Sounder Expansion Panel

Compatible with all Intelligent addressable and conventional panels.



ML-0314/M  
Sounder Expansion Panel,  
Marine Approved

- Compatible with EN 54-18 and EN 54-4 standards
- 4 supervised sounder output, each are 1A, 24 V DC
- Sounder outputs are supervised and continuously monitor for open and short circuit
- Direct connection to addressable and conventional systems
- Continuous control against power supply failure
- Direct supply from the batteries when the power supply is cut
- Battery charge voltage is automatically adjusted according to ambient temperature

# Conventional Manual Call Points

Designed according to the EN 54-11 standards, with easy to install and easy to use features and useful accessories, the conventional fire alarm manual call points offer superior and stable working performance.



### Conventional Manual Call Point, Resettable

The MCP is activated by manual pressing on the flexible plastic cover. The switch, normally resting on flexible plastic cover, changes position and retains it until it is brought into its initial position.

- Easy resettable
- LED indicated activation
- Compatible with EN 54-11 standards
- Surface mount or flush mount
- Compatible with all conventional fire alarm panels
- Transparent protection cover

### Smoke Detector Tester / Sabre

Smoke detector tester is a functional testing product for ionization and optical smoke detectors.

- UL listed
- Non-flammable
- Non-toxic
- Easy to use
- Does not damage the detector
- High speed draft
- Doesn't damage plastic surface and internal structure
- No silicon content, ozone friendly with no CFCs

BUTTON MODELS		ACCESSORIES	
Product Code	Description	Product code	Description
ML-2710/M	Maxlogic Conventional Manual Call Point, Resettable, Marine Approved	ML-0710	Transparent protection cover
ML-2720/M	Maxlogic Conventional Manual Call Point, Resettable, NC/NO Contact, Marine Approved	SMOKE	Smoke detector tester / sabre
ML-2730/M	Maxlogic Conventional Fire Alarm Manual Call Point, Resettable, Weatherproof (IP65), Marine Approved	SABRE 01-001	
ML-2731/M	Maxlogic Conventional Fire Alarm Manual Call Point, Resettable, Weatherproof(IP65), NC/NO Contact, Marine Approved		
ML-0314/M	Sounder Expansion Panel, Marine Approved		

## Reliable Choice for Exproof Applications...

# Gas Alarm Control Panel 4 Channel

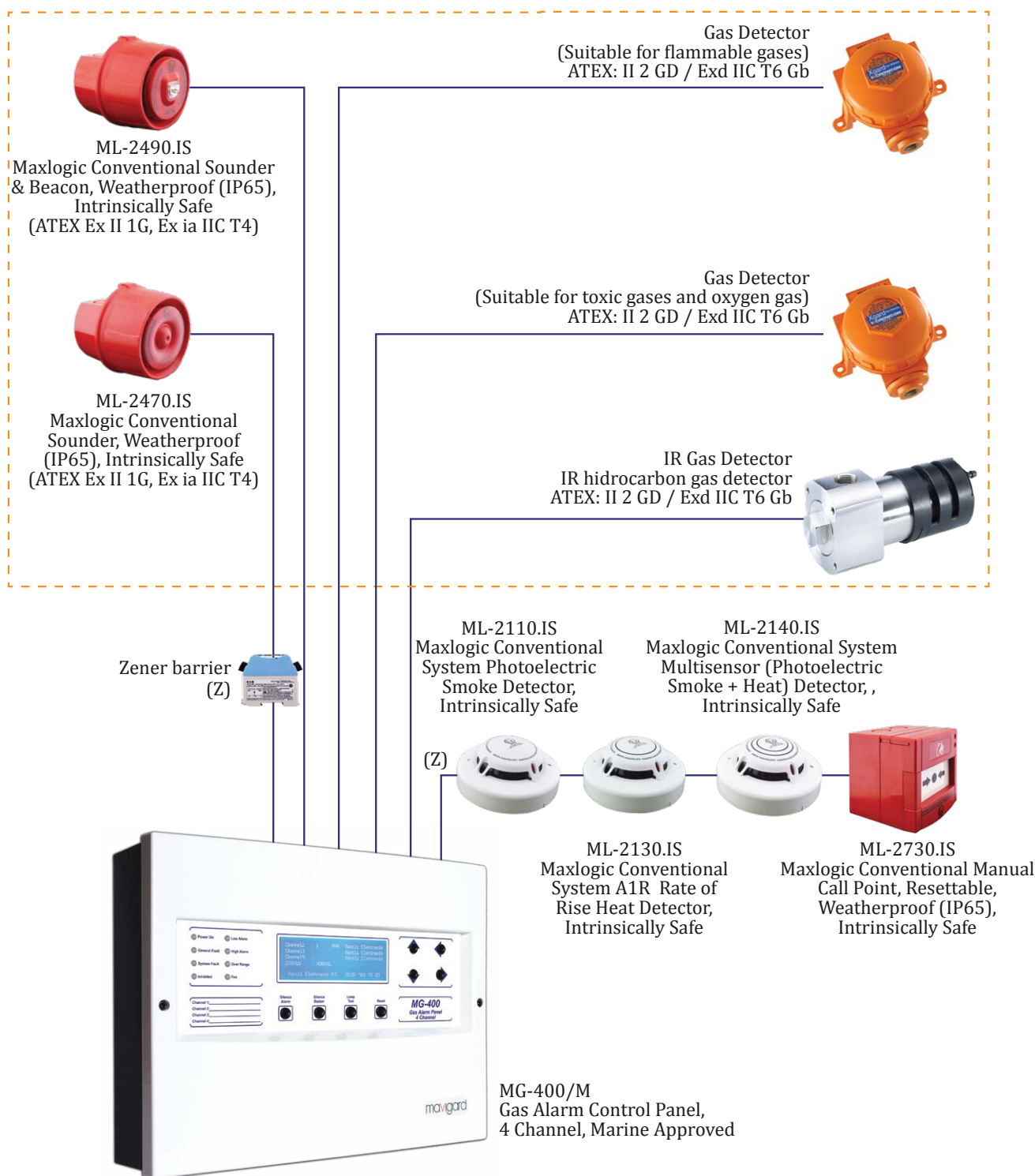
The modern design panel, offering advanced programmability and high performance with its 4 channels, is widely applicable for industrial use. Panels offer many features to integrate to automations applications.



MG-400/M  
Gas Alarm Control Panel,  
4 Channel, Marine Approved

- ▶ The panel has 4 channels, each capable of hosting 1 industrial type gas detector or 20 conventional fire detectors
- ▶ Large graphic 240x64 pixels LCD with adjustable backlight displays system information, including gas detector measurements, alarms and faults
- ▶ Adjustable high and low alarm thresholds
- ▶ Sending signals to different systems via high and low alarm relays, high level fault relay, and general fault relay





- Compatible with Industrial gas detectors and 4-20 mA converter
- Desired channels can be disabled, sounder outputs and relays can be tested, gas detectors can be zeroed and calibration can be done via panel.
- It is possible to enter zone location names for panels and detectors
- Channel measurement unit can be chosen from "%LEL", "PPB", "PPM", "%VOL" or "GAS"
- High and low alarm warnings can be selected according to ambient gas density.
- Latching/non-latching relay outputs
- Relays can be set as NO or NC
- Latching/non-latching sounder outputs
- Compatible with two and three wire detectors
- Sink and source operating selection for channels
- Password access and remote control for protection against unauthorized intervention

#### MODELS

Product Code	Channel Capacity
MG-400/M	4

## Perfect Extinguishing Automation...

# Conventional Fire Extinguishing Control Panel

Conventional series fire extinguishing control panel operates on cross-zone principle, has 4 detection zones and one extinguishing release output which is programmable according to the zone requirements. Conventional extinguishing control panel is microprocessor controlled, offers high performance and can easily be integrated into all extinguishing projects.



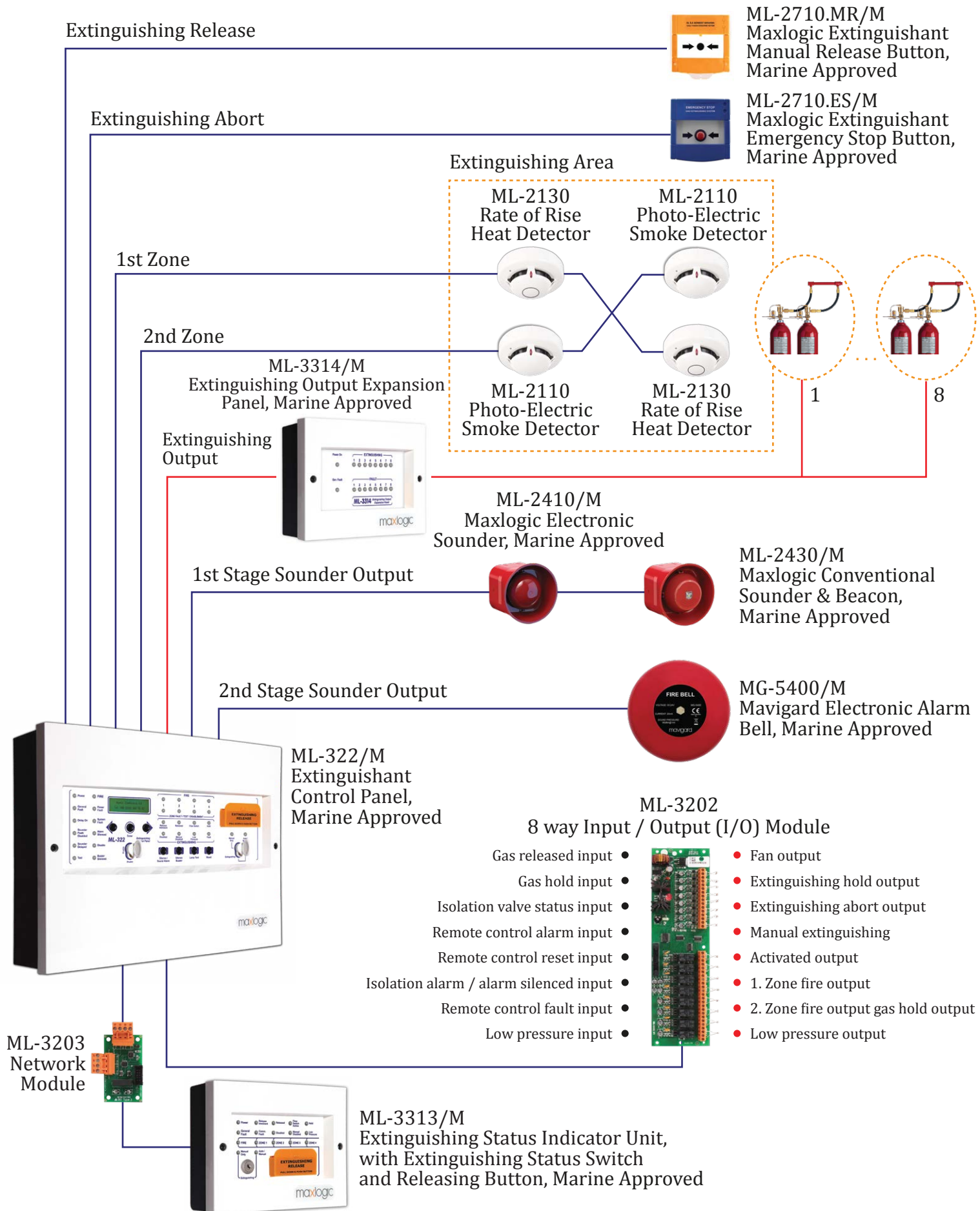
**ML-322/M**  
Maxlogic Conventional Fire Extinguishing  
Control Panel 4 Detection Zones, 1  
Extinguishing Area, Manual Release  
Inc., Marine Approved

**ML-3313/M**  
Maxlogic Extinguishant Status Indicator  
Unit With Mode Select and Manual  
Release, Marine Approved

- ▶ Compatible with EN 12094-1, EN 54-2 and EN 54-4 standards
- ▶ 4 detection zones, 1 extinguishing zone
- ▶ Extinguishing-related front panel LEDs and LCD screen provide full system information
- ▶ Display of two warnings from two devices on the detection zones with fire zone LED
- ▶ Up to 8 pcs extinguishant status indicator units can be connected to one pcs fire extinguishing panel
- ▶ Status indicator units allow the indicator and controls of the ML-322 fire extinguishing panel, which is located on the fire extinguishing panel, to be moved away from the area where the panel is located.
- ▶ The status indicator unit includes 4 supervised inputs. These inputs are for Hold, Disable, Extinguishing Mode Switch, and Remote Reset

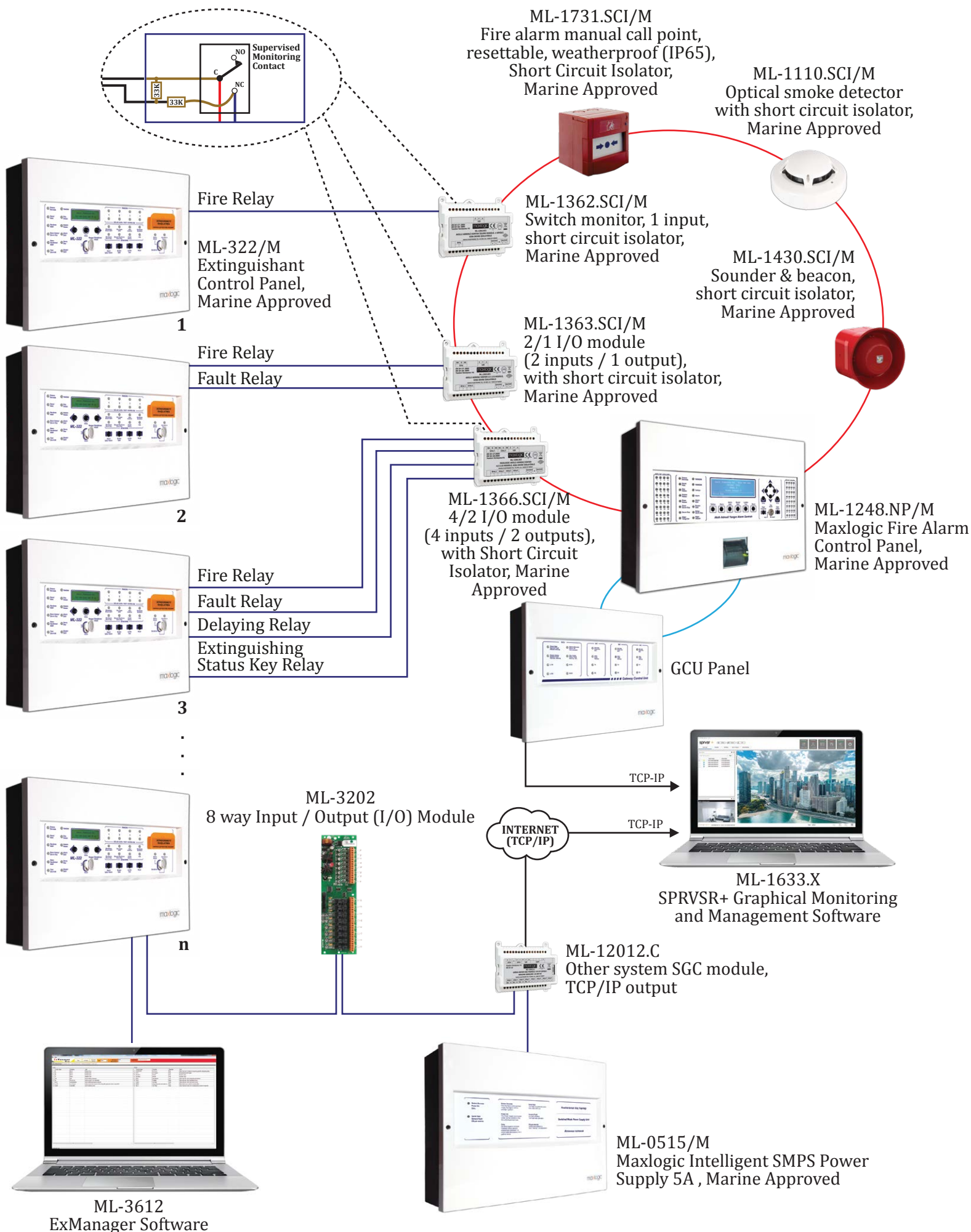


# Conventional Fire Extinguishing System Diagram



# Monitoring via Addressable System

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- ▶ Adjustable first level delay time to sounders
- ▶ Adjustable delay time to detection zones
- ▶ Configurable delay and extinguishing time
- ▶ Non-latching zone option
- ▶ Countdown clock until the starting of extinguishing
- ▶ Fire and fault LEDs for each detection zone
- ▶ Supervised zone detection inputs, extinguishing hold input, extinguishing abort input, extinguishing activation input, low pressure input
- ▶ Real time clock
- ▶ Supervised extinguishing output, second level sounders, gas active output
- ▶ Extinguishing mode can be changed remotely with extinguishing status key input
- ▶ Fire and fault relays
- ▶ Dry contact relay output for fire and fault
- ▶ Dry or energized contact options for outputs
- ▶ Favorable structure for integration with mechanical systems
- ▶ Cross-zone operation can be selected to be active/passive via PC software
- ▶ Up to 1000 events log memory
- ▶ Ability to include all inputs and outputs in scenarios with Ex Manager
- ▶ Sending event log via RS-232 to PC or printer
- ▶ There are two extinguishing operating types; automatic and manual or manual only
- ▶ Detection zones can be tested or disabled, 1st and 2nd level sounder output, extinguishing system and manual extinguishing disable options Inputs and outputs of panel, inputs and outputs of expansion module can be programmed via special PC software. Many features can be assigned such as gas active for outputs, remote alarm for inputs, remote reset.
- ▶ Short and open circuit faults in the installation can be monitored via supervised inputs

#### PANEL MODELS

##### Product Code Description

ML-322/M	Maxlogic Conventional Fire Extinguishing Control Panel 4 Detection Zones, 1 Extinguishing Area, Manual Release Inc., Marine Approved
ML-3313/M	Maxlogic Extinguishant Status Indicator Unit With Mode Select and Manual Release, Marine Approved
ML-3314/M	Extinguishing Output Expansion Panel, Marine Approved

#### DETECTOR MODELS

##### Product Code Description

ML-2110/M	Maxlogic Conventional System Photoelectric Smoke Detector, Marine Approved
ML-2120/M	Maxlogic Conventional System Heat Detector, Marine Approved
ML-2130/M	Maxlogic Conventional System A1R Rate of Rise Heat Detector, Marine Approved
ML-2140/M	Maxlogic Conventional System Multi-sensor Detector, Marine Approved

#### SOUNDER MODELS

##### Product Code Description

ML-2410/M	Maxlogic Electronic Sounder, Marine Approved
ML-2420/M	Maxlogic Conventional Beacon, Marine Approved
ML-2430/M	Maxlogic Conventional Sounder & Beacon, Marine Approved

#### BUTTON MODELS

##### Product Code Description

ML-2710.MR/M	Maxlogic Extinguishant Manual Release Button, Marine Approved
ML-2710.ES/M	Maxlogic Extinguishant Emergency Stop Button, Marine Approved

#### SOFTWARE AND ACCESSORY MODELS


##### Product Code Description

ML-3612	Maxlogic Exmanager Software for ML-321 / ML-322 Usage Fee (Including Converter and Communication Cable)
MG-5400/M	Mavigard Electronic Alarm Bell, Marine Approved


## Marine Series Products

The products in this section have the Turkish Loyd or / and Whellmark type approval certificate. You can access the certificate information of our products from the list below.


### Maxlogic Marine Series Addressable Fire Alarm Panels, 8 Loops

	Product Code	Description	Turkish Loyd	MED
	ML-1230.N/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 0 Loop, Network, Marine Approved	Yes	Yes
	ML-1231/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 1 Loop, 127 Address, Marine Approved	No	Yes
	ML-1232/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 2 Loops, 254 Address, Marine Approved	Yes	Yes
	ML-1233/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 3 Loops, 381 Address, Marine Approved	No	Yes
	ML-1234/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 4 Loops, 508 Address, Marine Approved	Yes	Yes
	ML-1235/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 5 Loops, 635 Address, Marine Approved	No	Yes
	ML-1236/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 6 Loops, 762 Address, Marine Approved	Yes	Yes
	ML-1237/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 7 Loops, 889 Address, Marine Approved	No	Yes
	ML-1238/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 8 Loops, 1016 Address, Marine Approved	Yes	Yes


### Maxlogic Marine Series Addressable Fire Alarm Panels, 8 Loops, Network

	Product Code	Description	Turkish Loyd	MED
	ML-1231.N/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 1 Loop, 127 Address, Network, Marine Approved	No	Yes
	ML-1232.N/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 2 Loops, 254 Address, Network, Marine Approved	No	Yes
	ML-1233.N/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 3 Loops, 381 Address, Network, Marine Approved	No	Yes
	ML-1234.N/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 4 Loops, 508 Address, Network, Marine Approved	No	Yes
	ML-1235.N/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 5 Loops, 635 Address, Network, Marine Approved	No	Yes
	ML-1236.N/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 6 Loops, 762 Address, Network, Marine Approved	No	Yes
	ML-1237.N/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 7 Loops, 889 Address, Network, Marine Approved	No	Yes
	ML-1238.N/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 8 Loops, 1016 Address, Network, Marine Approved	No	Yes


### Maxlogic Marine Series Addressable Fire Alarm Panels, 8 Loops, Printer

	Product Code	Description	Turkish Loyd	MED
	ML-1241.P/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 1 Loops, 127 Address, Printer, Marine Approved	No	Yes
	ML-1242.P/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 2 Loops, 254 Address, Printer, Marine Approved	Yes	Yes
	ML-1243.P/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 3 Loops, 381 Address, Printer, Marine Approved	No	Yes
	ML-1244.P/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 4 Loops, 508 Address, Printer, Marine Approved	Yes	Yes
	ML-1245.P/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 5 Loops, 635 Address, Printer, Marine Approved	No	Yes
	ML-1246.P/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 6 Loops, 762 Address, Printer, Marine Approved	Yes	Yes
	ML-1247.P/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 7 Loops, 889 Address, Printer, Marine Approved	No	Yes
	ML-1248.P/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 8 Loops, 1016 Address, Printer, Marine Approved	Yes	Yes


### Maxlogic Marine Series Addressable Fire Alarm Panels, 8 Loops, Printer, Network

	Product Code	Description	Turkish Loyd	MED
	ML-1240.NP/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 0 Loop, Network, Printer, Marine Approved	Yes	Yes
	ML-1241.NP/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 1 Loop, 127 Address, Network, Printer, Marine Approved	No	Yes
	ML-1242.NP/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 2 Loops, 254 Address, Network, Printer, Marine Approved	No	Yes
	ML-1243.NP/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 3 Loops, 381 Address, Network, Printer, Marine Approved	No	Yes
	ML-1244.NP/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 4 Loops, 508 Address, Network, Printer, Marine Approved	No	Yes
	ML-1245.NP/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 5 Loops, 635 Address, Network, Printer, Marine Approved	No	Yes
	ML-1246.NP/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 6 Loops, 762 Address, Network, Printer, Marine Approved	No	Yes
	ML-1247.NP/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 7 Loops, 889 Address, Network, Printer, Marine Approved	No	Yes
	ML-1248.NP/M	Maxlogic Intelligent Addressable System Fire Alarm Control Panel, 8 Loops, 1016 Address, Network, Printer, Marine Approved	No	Yes

### Maxlogic Marine Series Addressable Fire Alarm Panels, 2 Loops

	Product Code	Description	Turkish Loyd	MED
	ML-1221/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 1 Loop, 127 Address, Marine Approved	No	Yes
	ML-1222/M	Maxlogic Intelligent Addressable Fire Alarm Control Panel, 2 Loops, 254 Address, Marine Approved	No	Yes

### Maxlogic Marine Series Addressable GCU (Gateway Control Unit) Panel

	Product Code	Description	Turkish Loyd	MED
	ML-1207.C/M	Maxlogic Addressable GCU Panel, 3A Power Supply and TCP / IP Modules Included, Marine Approved	No	Yes
	ML-1207.G/M	Maxlogic Addressable GCU Panel, 3A Power Supply and GPRS Modules Included, Marine Approved	No	Yes
	ML-1207.B/M	Maxlogic Intelligent Addressable System GCU Panel, BACnet module included, Marine Approved	No	Yes
	ML-1207.MX/M	Maxlogic Intelligent Addressable System GCU Panel, Modbus module included, Marine Approved	No	Yes
	ML-1207.NTP/M	Maxlogic System-NTP Server Communication Module, Marine Approved	No	Yes



## Maxlogic / Navigard Marine Series Addressable Manual Call Point



■ ML-1710/M



■ ML-1731/M

Product Code	Description	Turkish Loyd	MED
ML-1710/M	Maxlogic Intelligent Analogue Addressable System Manual Call Point, Marine Approved	Yes	Yes
ML-1710.SCI/M	Maxlogic Intelligent Analogue Addressable System Manual Call Point With Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1731/M	Maxlogic Intelligent Addressable Fire Alarm Manual Call Point, Resettable, Weatherproof (IP65), Marine Approved	No	Yes
ML-1731.SCI/M	Maxlogic Intelligent Addressable Fire Alarm Manual Call Point, Resettable, Weatherproof (IP65), Short Circuit Isolator, Marine Approved	No	Yes
ML-1720/M	Maxlogic Corded Emergency Panic Button, Marine Approved	No	Yes
ML-1720.SCI/M	Maxlogic Corded Emergency Panic Button with Short Circuit Isolator, Marine Approved	No	Yes
ML-1810/M	Maxlogic Intelligent Addressable System Water Leakage Detector, Marine Approved	No	Yes
ML-1810.SCI/M	Maxlogic Intelligent Addressable System Water Leakage Detector with Short Circuit Isolator, Marine Approved	No	Yes
ML-0710/M	Maxlogic Protection Cover for Manual Call Point, Marine Approved	No	Yes

## Maxlogic & Navigard Marine Series Addressable Detectors



■ ML-1110/M



■ ML-1140/M

Product Code	Description	Turkish Loyd	MED
ML-1110/M	Maxlogic Intelligent Analogue Addressable Photo-Electric Smoke Detector, Marine Approved	Yes	Yes
ML-1120/M	Maxlogic Intelligent Addressable System A1S Fixed Temp Heat Detector, Marine Approved	No	Yes
ML-1130/M	Maxlogic Intelligent Addressable Heat Detector, Marine Approved	Yes	Yes
ML-1140/M	Maxlogic Intelligent Addressable Multisensor (Photo-Electric Smoke + Heat) Detector, Marine Approved	Yes	Yes
ML-1110.SCI/M	Maxlogic Intelligent Addressable Photo-Electric Smoke Detector with short circuit isolator, Marine Approved	Yes	Yes
ML-1120.SCI/M	Maxlogic Intelligent Addressable System A1S Fixed Temp Heat Detector with Short Circuit Isolator, Marine Approved	No	Yes
ML-1130.SCI/M	Maxlogic Intelligent Addressable Heat Detector with Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1140.SCI/M	Maxlogic Intelligent Addressable Multisensor (Photo-Electric Smoke + Heat) Detector with short circuit isolator, Marine Approved	Yes	Yes
ML-1130BS/M	Maxlogic Intelligent Addressable System BS Class Heat Detector, Marine Approved	Yes	Yes
MG-9100/M	Navigard Intelligent Addressable Photo-Electric Smoke Detector (Marine Approved)	Yes	Yes
MG-9300/M	Navigard Intelligent Addressable Heat Detector (Marine Approved)	Yes	Yes
MG-9400/M	Navigard Intelligent Addressable Multisensor Detector (Photoelectric Smoke+Heat), Marine Approved	Yes	Yes
ML-1180/M	Maxlogic Intelligent Addressable Aspirating Smoke Detector, Marine Approved	No	Yes
ML-1180.SCI/M	Maxlogic Intelligent Addressable Aspirating Smoke Detector with Short Circuit Isolator, Marine Approved	No	Yes

## Maxlogic Marine Series Intelligent Addressable Beam Type Smoke Detector



■ ML-1170.SCI/M



■ ML-1173.SCI/M

Product Code	Description	Turkish Loyd	MED
ML-1170/M	Maxlogic Intelligent Analogue Addressable Beam Detector, Marine Approved	Yes	No
ML-1170.SCI/M	Maxlogic Intelligent Analogue Addressable Beam Detector, Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1173/M	Maxlogic Intelligent Addressable Reflective Beam Detector, (Included 1 Reflector), Marine Approved	Yes	No
ML-1173.SCI/M	Maxlogic Intelligent Addressable Reflective Beam Type Smoke Detector, c/w Short Circuit Isolator, Marine Approved	Yes	Yes
ML-0171	Maxlogic Beam Type Smoke Detector Reflector, 1 Piece Set	-	-
ML-0174	Maxlogic Beam Type Smoke Detector Reflector, 4 Piece Set	-	-

## Maxlogic Marine Series Addressable Sounder and Beacon



■ ML-1410/M ■ ML-1430/M



■ ML-1440/M, ML-1450/M  
ML-1460/M, ML-1470/M  
ML-1480/M, ML-1490/M



■ ML-1101/M



■ ML-1102/M

Product Code	Description	Turkish Loyd	MED
ML-1410/M	Maxlogic Addressable Sounder, Marine Approved	Yes	Yes
ML-1410.SCI/M	Maxlogic Addressable Sounder with Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1420/M	Maxlogic Addressable Strobe, Marine Approved	Yes	No
ML-1420.SCI/M	Maxlogic Addressable Strobe with Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1422.SCI/M	Maxlogic Intelligent Addressable Ceiling Type (C Class, IP65) Beacon with Short Circuit Isolator, Marine Approved	No	Yes
ML-1424.SCI/M	Maxlogic Intelligent Addressable Wall Type (W Class, IP65) Beacon with Short Circuit Isolator, Marine Approved	No	Yes
ML-1430/M	Maxlogic Addressable Sounder Strobe, Marine Approved	Yes	Yes
ML-1430.SCI/M	Maxlogic Addressable Sounder Strobe with Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1440/M	Maxlogic Intelligent Addressable System Sounder, Weatherproof (IP33), Marine Approved	Yes	Yes
ML-1440.SCI/M	Maxlogic Intelligent Addressable System Sounder, Weatherproof (IP33), Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1450/M	Maxlogic Intelligent Addressable System Beacon, Weatherproof (IP33), Marine Approved	Yes	No
ML-1450.SCI/M	Maxlogic Intelligent Addressable System Beacon, Weatherproof (IP33), Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1460/M	Maxlogic Intelligent Addressable System Sounder & Beacon, Weatherproof (IP33), Marine Approved	Yes	Yes
ML-1460.SCI/M	Maxlogic Intelligent Addressable System Sounder & Beacon, Weatherproof (IP33), Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1470/M	Maxlogic Intelligent Addressable System Sounder, Weatherproof (IP65), Marine Approved	Yes	Yes
ML-1470.SCI/M	Maxlogic Intelligent Addressable System Sounder, Weatherproof (IP65), Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1480/M	Maxlogic Intelligent Addressable System Beacon, Weatherproof (IP65), Marine Approved	Yes	No
ML-1480.SCI/M	Maxlogic Intelligent Addressable System Beacon, Weatherproof (IP65), Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1490/M	Maxlogic Intelligent Addressable System Sounder & Beacon, Weatherproof (IP65), Marine Approved	Yes	Yes
ML-1490.SCI/M	Maxlogic Intelligent Addressable System Sounder & Beacon, Weatherproof (IP65), Short Circuit Isolator, Marine Approved	Yes	Yes
ML-1101/M	Maxlogic Intelligent Addressable Loop Powered Base Sounder, Marine Approved	Yes	Yes
ML-1102/M	Maxlogic Intelligent Addressable Loop Powered Base Sounder Beacon, Marine Approved	Yes	Yes





## Maxlogic Marine Series Addressable Smoke Damper Control Panels




■ ML-1355/M

Product Code	Description	Turkish Loyd	MED
ML-1353/M	Maxlogic Intelligent Addressable System 16 way I/O Panel, Marine Approved	Yes	Yes
ML-1354/M	Maxlogic Intelligent Addressable System Smoke Damper Control Panel, 16 way I/O Module, Marine Approved	Yes	Yes
ML-1355/M	Maxlogic Intelligent Addressable System Smoke Damper Control Panel with Toggle Switch, 16 way I/O Module, Marine Approved	Yes	Yes


## Maxlogic / Navigard Marine Series Addressable Control Modules

	Product Code	Description	Turkish Loyd	MED
 <p>■ ML-1363.SCI/M</p>  <p>■ ML-1366.SCI/M</p>  <p>■ ML-1373.SCI/M</p>  <p>■ ML-0320/M</p>	ML-1361/M	Maxlogic Adressable Relay Control Module, 1 Output, Marine Approved	Yes	Yes
	ML-1361.SCI/M	Maxlogic Adressable Relay Control Module, SCI, Marine Approved	Yes	Yes
	ML-1362/M	Maxlogic Adressable Switch Monitor Module, 1 Input, Marine Approved	Yes	Yes
	ML-1362.SCI/M	Maxlogic Adressable Switch Monitor Module, SCI, Marine Approved	Yes	Yes
	ML-1363/M	Maxlogic Adressable 2/1 I/O Module, 2 Switch Monitor, 1 Relay Output, Marine Approved	Yes	Yes
	ML-1363.SCI/M	Maxlogic Adressable 2/1 I/O Module, 2 Switch Monitor, 1 Relay Output, SCI, Marine Approved	Yes	Yes
	ML-1366/M	Maxlogic Adressable 4/2 I/O Module, 4 Switch Monitor, 2 Relay Output, Marine Approved	Yes	Yes
	ML-1366.SCI/M	Maxlogic Adressable 4/2 I/O Module, 4 Switch Monitor, 2 Relay Output, SCI, Marine Approved	Yes	Yes
	ML-1371/M	Maxlogic Interface Module, 1 Sounder Control Output, 1 Output, Marine Approved	Yes	Yes
	ML-1371.SCI/M	Maxlogic Interface Module, 1 Sounder Control Output, Short Cicuit Isolator, Marine Approved	Yes	Yes
	ML-1372/M	Maxlogic Interface Module, Zone Monitor Module, 1 Input, Marine Approved	Yes	Yes
	ML-1372.SCI/M	Maxlogic Interface Module, Zone Monitor Module, Short Cicuit Isolator, Marine Approved	Yes	Yes
	ML-1373/M	Maxlogic Interface Module, 2 Zone Monitor Inputs, 1 Sounder Control Output, Marine Approved	Yes	Yes
	ML-1373.SCI/M	Maxlogic Interface Module, 2 Zone Monitor Inputs, 1 Sounder Control Output, SCI, Marine Approved	Yes	Yes
	ML-1380/M	Maxlogic Addressable Short Cicuit Module, Marine Approved	Yes	Yes
	ML-1390/M	Maxlogic Addressable Short Cicuit Module, Marine Approved	Yes	Yes
	ML-0320/M	Maxlogic Intelligent Addressable System 2-I/O Module Protection Box, Marine Approved	No	Yes
	ML-1318/M	Maxlogic Intelligent Addressable System Relay Control Module, 8 Output, Marine Approved	No	Yes
	ML-1318.SCI/M	Maxlogic Intelligent Addressable System Relay Control Module, 8 Output with Short Circuit Isolator, Marine Approved	No	Yes
	ML-1328/M	Maxlogic Intelligent Addressable System Switch Monitor Module, 8 Input, Marine Approved	No	Yes
	ML-1328.SCI/M	Maxlogic Intelligent Addressable System Switch Monitor Module, 8 Input with Short Circuit Isolator, Marine Approved	No	Yes
	ML-1338/M	Maxlogic Intelligent Addressable System Sounder Control Module, 8 Output, Marine Approved	No	Yes
	ML-1338.SCI/M	Maxlogic Intelligent Addressable System Sounder Control Module, 8 Output with Short Circuit Isolator, Marine Approved	No	Yes
	ML-1348/M	Maxlogic Intelligent Addressable System Zone Control Module, 8 Input, Marine Approved	No	Yes
	ML-1348.SCI/M	Maxlogic Intelligent Addressable System Zone Control Module, 8 Input with Short Circuit Isolator, Marine Approved	No	Yes
	ML-1351/M	Maxlogic Intelligent Addressable System 4 Switch Monitor, 4 Relay Control Module, Marine Approved	No	Yes
	ML-1351.SCI/M	Maxlogic Intelligent Addressable System 4 Switch Monitor, 4 Relay Control Module with Short Circuit Isolator, Marine Approved	No	Yes
	ML-1352/M	Maxlogic Intelligent Addressable System 4 Zone Monitor, 4 Sounder Control Module, Marine Approved	No	Yes
	ML-1352.SCI/M	Maxlogic Intelligent Addressable System 4 Zone Monitor, 4 Sounder Control Module with Short Circuit Isolator, Marine Approved	No	Yes
	MG-6700/M	Navigard Intelligent Addressable Mains Relay Controller, 1 Way Output, 8A, Marine Approved	Yes	No


## Maxlogic Marine Series SMPS Power Supply Units

	Product Code	Description	Turkish Loyd	MED
 <p>■ ML-05110/M</p>	ML-0515/M	Maxlogic Intelligent SMPS Power Supply 5A , Marine Approved	Yes	Yes
	ML-05110/M	Maxlogic Intelligent SMPS Power Supply 10A , Marine Approved	Yes	Yes


## Maxlogic Marine Series Announcement/Alarm Matrix Panel and 7" TFT Mimic Panel

	Product Code	Description	Turkish Loyd	MED
 <p>■ ML-1280/M</p>	ML-5020/M	Maxlogic Announce / Alarm Matrix Panel, 19", 3U Rack Mounted with Announce Power Module and Announce Output Module, Marine Approved	Yes	No
	ML-1280/M	Maxlogic Addressable 7" TFT Mimic Panel, Marine Approved	Yes	Yes


## Maxlogic Marine Series Intelligent Addressable System Smoke Damper Modules

	Product Code	Description	Turkish Loyd	MED
 <p>■ ML-1358.SCI/M</p>	ML-1356/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V DC, Marine Approved	No	Yes
	ML-1357/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V AC, Marine Approved	No	Yes
	ML-1358/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 220V AC, Marine Approved	No	Yes
	ML-1356.SCI/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V DC, Short Circuit Isolator, Marine Approved	No	Yes
	ML-1357.SCI/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 24V AC, Short Circuit Isolator, Marine Approved	No	Yes
	ML-1358.SCI/M	Maxlogic Intelligent Addressable System Smoke Damper Module, 1 Output, 220V AC, Short Circuit Isolator, Marine Approved	No	Yes

## Marine Series Accessories For Maxlogic & Navigard Addressable Detectors


	Product Code	Description	Turkish Loyd	MED
 <p>■ ML-0140/M</p>	ML-0140/M	Maxlogic Detector Mounting Base, Marine Approved	Yes	Yes
	ML-0141/M	Maxlogic Mounting Base With Buzzer for Maxlogic Detectors, Marine Approved	No	Yes
	ML-0144/M	Maxlogic Mounting Base (B class), Marine Approved	Yes	Yes
	MG-3510/M	Navigard Intelligent Addressable Mounting Base, White, Marine Approved	Yes	Yes
	MG-3530/M	Navigard Mounting Base c/w Buzzer, Marine Approved	Yes	Yes
	MG-3600/M	Navigard Detector Accessories Recessed Mounting Base, Marine Approved	Yes	Yes
	MG-3700/M	Navigard Weathetproof Back Box For Fire Detectors, Marine Approved	Yes	Yes
	ML-0121/M	Maxlogic Surface Mounting Back Box For Fire Detectors, Marine Approved	Yes	Yes
	ML-0120/M	Maxlogic Surface Mounting Back Box, Marine Approved	No	Yes
	MG-4000.A/M	Navigard Addressable System Remote Indicator, Includes MG-4100 Mounting Box, Marine Approved	Yes	Yes
	ML-0150/M	Maxlogic Accessories For Fire Detectors Recessed Mounting Base, White[Excl. Detector and Base], Marine Approved	Yes	Yes

## Maxlogic Marine Series Conventional Beam Type Smoke Detector


	Product Code	Description	Turkish Loyd	MED
 <p>■ ML-2173/M</p>	ML-2170/M	Maxlogic Conventional Beam Type Smoke Dedector, Marine Approved	Yes	No
	ML-2173/M	Maxlogic Conventional Reflector Beam Detector, Marine Approved	Yes	No
	ML-0171	Maxlogic Beam Type Smoke Detector Reflector, 1 Piece Set	-	-
	ML-0174	Maxlogic Beam Type Smoke Detector Reflector, 4 Piece Set	-	-





## Maxlogic Marine Series Conventional Fire Alarm Panels

 ■ ML-22116/M	Product Code	Description	Turkish Loyd	MED
	ML-22102/M	Maxlogic Conventional Fire Alarm Control Panel 2 zone, Marine Approved	Yes	Yes
	ML-22104/M	Maxlogic Conventional Fire Alarm Control Panel 4 zone, Marine Approved	Yes	Yes
	ML-22108/M	Maxlogic Conventional Fire Alarm Control Panel 8 zone, Marine Approved	Yes	Yes
	ML-22116/M	Maxlogic Conventional Fire Alarm Control Panel 16 zone, Marine Approved	Yes	Yes
	MGRP-64/M	Mavigard Conventional Repeater Panel, Marine Approved	Yes	Yes
	ML-2222/M	Maxlogic Conventional Fire Alarm Control Panel 2 zone, Marine Approved	No	Yes
	ML-2224/M	Maxlogic Conventional Fire Alarm Control Panel 4 zone, Marine Approved	No	Yes
	ML-2228/M	Maxlogic Conventional Fire Alarm Control Panel 8 zone, Marine Approved	No	Yes
	ML-0314/M	Maxlogic Sounder Expansion Panel, Marine Approved	No	No



## Maxlogic Marine Series Addressable Manual Call Point

 ■ ML-2710/M	Product Code	Description	Turkish Loyd	MED
	ML-2710/M	Maxlogic Conventional Manual Call Point, Resettable, Marine Approved	Yes	Yes
	ML-2720/M	Maxlogic Conventional Manual Call Point, Resettable, NC/NO Contact, Marine Approved	No	Yes
	ML-2730/M	Maxlogic Conventional Fire Alarm Manual Call Point, Resettable, Weatherproof (IP65), Marine Approved	No	Yes
	ML-2731/M	Maxlogic Conventional Fire Alarm Manual Call Point, Resettable, Weatherproof(IP65), NC/NO Contact, Marine Approved	No	Yes
	ML-0710/M	Maxlogic Protection Cover for Manual Call Point, Marine Approved	No	Yes



## Maxlogic / Mavigard Marine Series Conventional Detectors

 ■ ML-2110/M   ■ ML-2140/M	Product Code	Description	Turkish Loyd	MED
	ML-2110/M	Maxlogic Conventional System Photoelectric Smoke Detector, Marine Approved	Yes	Yes
	ML-2120/M	Maxlogic Conventional System Heat Detector, Marine Approved	Yes	Yes
	ML-2130/M	Maxlogic Conventional System A1R Rate of Rise Heat Detector, Marine Approved	Yes	Yes
	ML-2140/M	Maxlogic Conventional System Multi-sensor Detector, Marine Approved	Yes	Yes
	ML-2130BS/M	Maxlogic Conventional System Class BS Heat Detector with Mounting Base (ML-0144), Marine Approved	Yes	Yes
	MGR-2100/M	Mavigard Conventional Photo-Electric Smoke Detector, with Relay Output, Marine Approved	Yes	Yes
	MGR-2300/M	Mavigard Conventional Combined Heat (Rate of Rise) Detector, with Relay Output, Marine Approved	Yes	Yes
	MGR-2400/M	Mavigard Conventional Fixed Heat Detector, with Relay Output, Marine Approved	Yes	Yes
	MGR-2500/M	Mavigard Conventional Multisensor Detector (Photo-Electric Smoke + Heat) with Relay Output, Marine Approved	Yes	Yes
	MGR-2400CS/M	Mavigard Conventional Fixed Heat Detector with Relay Output, 90°C, Marine Approved	No	Yes
	ML-2180/M	Maxlogic Conventional Aspirating Smoke Detector, Marine Approved	No	Yes


## Maxlogic Marine Series Sounder & Beacon and Accessories

 ■ ML-2410/M ■ ML-2430/M   ■ ML-2440/M, ML-2450/M ML-2460/M, ML-2470/M ML-2480/M, ML-2490/M	Product Code	Description	Turkish Loyd	MED
	ML-2410/M	Maxlogic Electronic Sounder, Marine Approved	Yes	Yes
	ML-2420/M	Maxlogic Conventional Beacon, Marine Approved	Yes	No
	ML-2430/M	Maxlogic Conventional Sounder & Beacon, Marine Approved	Yes	Yes
	ML-2440/M	Maxlogic Conventional Sounder, Weatherproof (IP33), Marine Approved	Yes	Yes
	ML-2450/M	Maxlogic Conventional Beacon, Weatherproof (IP33), Marine Approved	Yes	No
	ML-2460/M	Maxlogic Conventional Sounder & beacon, Weatherproof (IP33), Marine Approved	Yes	Yes
	ML-2470/M	Maxlogic Conventional Sounder, Weatherproof (IP65), Marine Approved	Yes	Yes
	ML-2480/M	Maxlogic Conventional Beacon, Weatherproof (IP65), Marine Approved	Yes	No
	ML-2490/M	Maxlogic Conventional Sounder & Beacon, Weatherproof (IP65), Marine Approved	Yes	Yes


## Marine Series Accessories For Maxlogic & Mavigard Conventional Detectors

 ■ ML-0140/M   ■ MG-3700/M	Product Code	Description	Turkish Loyd	MED
	ML-0140/M	Maxlogic Detector Mounting Base, Marine Approved	Yes	Yes
	ML-0141/M	Maxlogic Mounting Base With Buzzer For Maxlogic Detectors, Marine Approved	No	Yes
	ML-0144/M	Maxlogic Mounting Base (B Class), Marine Approved	Yes	Yes
	MG-3700/M	Mavigard Weatherproof Back Box For Fire Detectors, Marine Approved	No	Yes
	ML-0121/M	Maxlogic Surface Mounting Back Box For Fire Detektors, Marine Approved	Yes	Yes
	MG-3500/M	Mavigard Universal Mounting Base, White, Marine Approved	No	Yes
	MG-3600/M	Mavigard Detector Accessories Recessed Mounting Base, Marine Approved	Yes	Yes
	MG-3550/M	Mavigard Mounting Base (For MGR Series), Marine Approved	Yes	Yes
	MG-3550CS/M	Mavigard Detector Mounting Base (C Class), Marine Approved	No	Yes
	MG-4000/M	Mavigard Remote Indicator, Marine Approved	Yes	Yes
	ML-0150/M	Maxlogic Accessories For Fire Detectors Recessed Mounting Base, White [Excl. Detector And Base], Marine Approved	Yes	Yes

## Maxlogic / Mavigard Marine Series Conventional Extinguishing Control Panels

 ■ ML-322/M	Product Code	Description	Turkish Loyd	MED
	ML-322/M	Maxlogic Conventional Fire Extinguishing Control Panel 4 Detection Zones, 1 Extinguishing Area, Manual Release Inc., Marine Approved	Yes	Yes
	ML-3313/M	Maxlogic Extinguishant Status Indicator Unit With Mode Select and Manual Release, Marine Approved	Yes	Yes
	ML-3314/M	Extinguishing Output Expansion Panel, Marine Approved	No	Yes
	ML-2710.MR/M	Maxlogic Extinguishant Manual Release Button, Marine Approved	Yes	Yes
	ML-2710.ES/M	Maxlogic Extinguishant Emergency Stop Button, Marine Approved	Yes	Yes
	MG-5400/M	Mavigard Electronic Alarm Bell, Marine Approved	Yes	Yes

## Mavigard Marine Series Gas Alarm Control Panel 4 Channel

 ■ MG-400/M	Product Code	Description	Turkish Loyd	MED
	MG-400/M	Gas Alarm Control Panel 4 Channel, Marine Approved	No	Yes

# Selected Samples from Our References



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