Conventional Fire Extinguishing Systems

Generating Confidence

maxlogic & mavigard

fire and gas detection systems

About Us

Mavili Elektronik A.S 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.

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

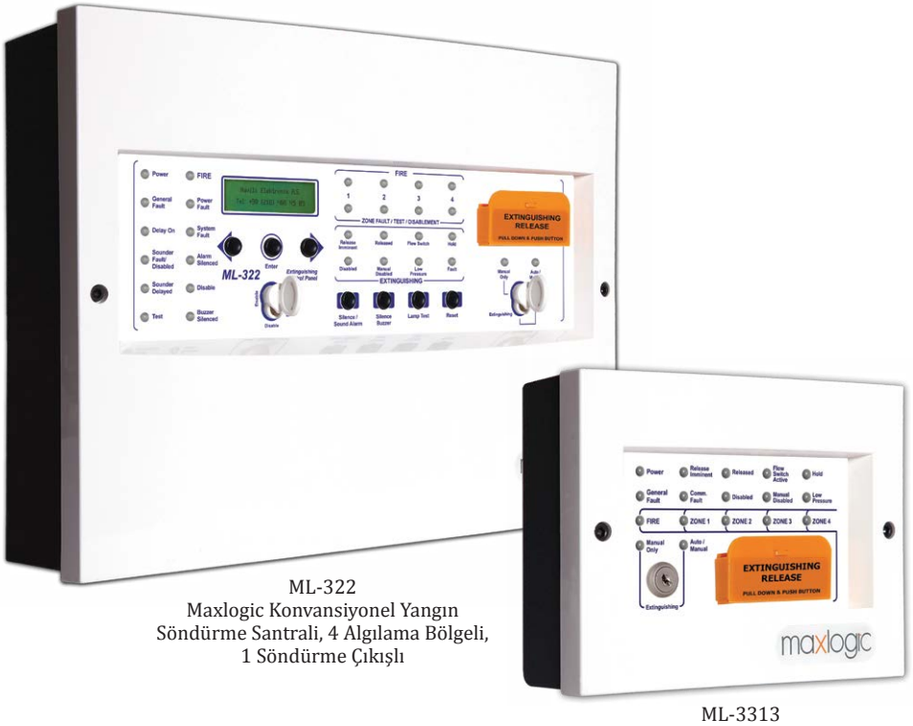
Sea Vehicles

and you may contact us for further information

Perfect Extinguishing Automation...

Conventional Fire Extinguishing Systems

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
Maxlogic Konvansiyonel Yangın Söndürme Santrali, 4 Algılama Bölgeli, 1 Söndürme Çıkışlı

ML-3313
Maxlogic Konvansiyonel Söndürme Durum Gösterge Ünitesi

- 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 ire zone LED
- Up to 8 pcs extinguishant status indicator units can be connected to one pcs fire extinguishing panel
- The status indicator units allow the indicators and controls located on the ML-322 fire extinguishing panel to be moved away from the area where the station is located.
- The status indicator unit contains four supervised inputs. These inputs are Delay, Cancel, Extinguish Status Switch, and Remote Reset inputs.

General Specifications

- Adjustable first-level sounder delays
- Adjustable delay time to detection zones
- The ability to assign delays to detection zones
- Unlatched zone option
- Countdown timer until the commencement of extinguishing
- Fire and fault LEDs for each detection zone
- Supervised detection zone inputs, extinguishing delay input, extinguishing cancel input, extinguishing initiation input, low pressure input
- Real time clock
- Supervised extinguishing output, second-level sounders, first-level sounders, gas discharged output
- The extinguishing mode can be remotely changed with the extinguish status switch input
- Fire and Fault Relay
- Dry contact signal output for Fire and Fault
- Powered/dry contact working option for outputs
- Suitable for integration with mechanical systems
- Choosing option for active/passive cross-zone working with computer software
- Event log memory up to 1000 events
- Event log can be monitored with computer software
- Retrieving event logs stored in memory as output via the RS-232 port (to a computer or printer)
- Extinguishing operation have two types working structure as automatic and manual or only manual
- Disabling and testing of detection zones, 1st and 2nd level relay outputs, extinguishing output, and extinguishing cancel button
- The inputs and outputs of the panel, as well as the inputs and outputs of the expansion module, can be programmed using a specialized computer program
- Various features such as gas active, remote alarm, and remote reset can be assigned to inputs

PANEL MODELS

Product code	Description
ML-322	Conventional Fire Extinguishing Control Panel, 4 Detection Zones, 1 Extinguishing Output
ML-3313	Extinguishing Status Indicator Unit, With Extinguishing Status Switch And Releasing Button
ML-3314	Extinguishing Output Expansion Panel
ML-3320	Maxlogic Conventional Extinguishing Panel Status Transfer Unit

DETECTOR MODELS

Product code	Description
ML-2110	Conventional Photo-Electric Smoke Detector
ML-2120	Conventional Fixed Heat Detector
ML-2130	Conventional Rate Of Rise Heat Detector
ML-2140	Conventional Multisensor Detector
ML-2130BS	Maxlogic Conventional System Class BS Heat Detector With Mounting Base

SOUNDER MODELS

Product code	Description
ML-2410	Conventional Sounder
ML-2420	Conventional Beacon
ML-2430	Conventional Sounder & Beacon

BUTTON MODELS

Product code	Description
ML-2710.MR	Extinguishant Manual Release Button
ML-2710.ES	Extinguishant Emergency Stop Button

SOFTWARE and ACCESSORIES MODELS

Product code	Description
ML-3612	Maxlogic Exmanager Software for ML-321 / ML-322 Usage Fee (Including Converter and Communication Cable)
MG-5400	Electronic Alarm Bell
ML-3202	8 Way Input / Output (I/O) Module
ML-3203	Network Module
ML-0710	Transparent Protection Cover
MLY-0237	Plastic Seal, 1
MLY-0238	Plastic Seal, 5-pack

Conventional Extinguishing System Accessories

ML-2410 Conventional Sounder

The Maxlogic series conventional sounders are audible alert devices suitable for use in enclosed spaces, offering superior operational performance.

- Compatible with EN 54-3
- Surface mount or flush mount
- Adjustable different 32 voice tone options
- Low or high voice power control
- Microprocessor controlled

ML-2710.ES Extinguishant Emergency Stop Button
ML-2710.MR Extinguishant Manual Release Button

Easy to use, innovative test key designed according to EN 12094-3, advanced technology resetting function and the features of the extinguishing emergency stop button having practical accessories are below.

- Compatible with EN 12094-3
- Compatible with surface and flush mounting
- Easily resettable
- IP22D protection class

ML-3314 Extinguishing Output Expansion Panel

Extinguishing output expansion panel is used to increase the sounder output number by connecting to extinguishing output.

- The outputs activate sequentially according to the wait and extinguish times determined by the software.
- 8 supervised extinguishing outputs
- Determined number of extinguishig outputs are made with connecting the panels as serial
- Activation and Fault status can be seen through LED's

ML-2420 / ML-2430 Conventional Beacon / Sounder & Beacon

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

- Compatible with EN 54-3 and EN 54-23
- Adjustable different 32 voice tone options
- Adjustable flash frequency and coverage area
- White, strong LED flasher

ML-2110 / ML-2120 / ML-2130 / ML-2140
Conventional Photo-Electric / Fixed Heat / Rate of Rise Heat / Multi-Sensor Detectors

Designed for maximum protection, the ML-21XX series fire detectors offer precise and stable detection performance, with an easy installation and user-friendly, ergonomic design.

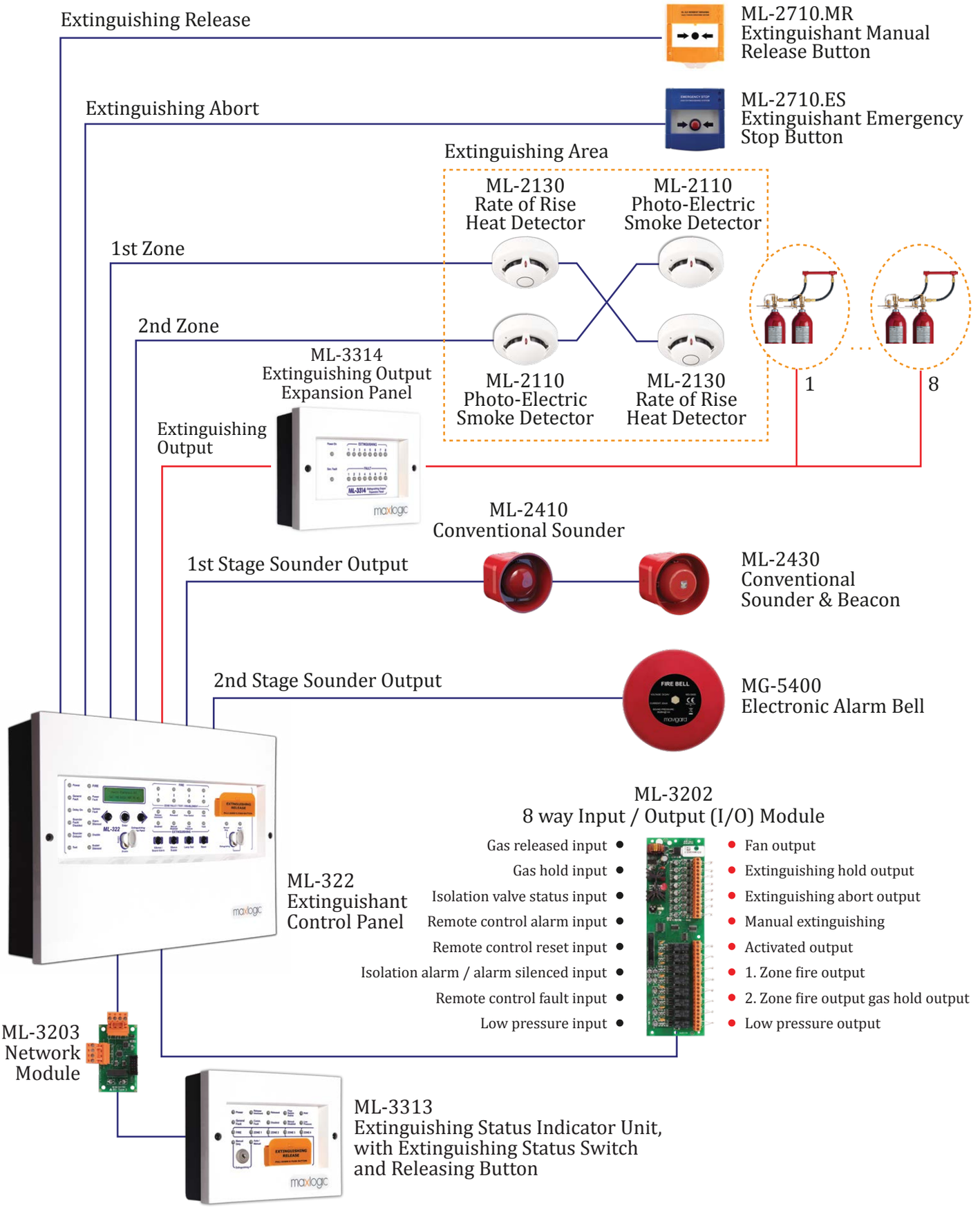
- Compatible with EN 54-5 and EN 54-7 standards
- Twin LED indicators for 360° view
- Microprocessor controlled
- Remote indicator output
- 2 pcs red LEDs

MG-5400 Electronic Alarm Bell

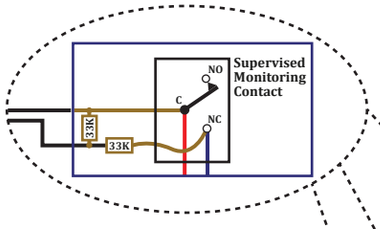
Fire alarm bell is a product that can be used by all systems, from intelligent addressable fire alarm systems to conventional fire alarm systems carrying Mavigard and Maxlogic brand

- Compatible with EN 54-3
- It generates an audible signal when it generates a warning signal in fire alarm panels.
- It is suitable for indoor use.

Conventional Fire Extinguishing System Diagram



Monitoring via Addressable System



ML-1731.SCI
Maxlogic Intelligent Addressable Fire Alarm Manual Call Point, Resettable, Weatherproof (IP65), Short Circuit Isolator

ML-1110.SCI
Optical smoke detector with short circuit isolator

Fire Relay

ML-322
Extinguishant Control Panel

1

ML-1362.SCI
Switch monitor, 1 input, short circuit isolator

ML-1430.SCI
Sounder & beacon, short circuit isolator

Fire Relay

Fault Relay

2

ML-1363.SCI
2/1 I/O module (2 inputs / 1 output), with short circuit isolator

ML-1366.SCI
4/2 I/O module (4 inputs / 2 outputs), with short circuit isolator

ML-1248.NP
Fire Alarm Control Panel

Fire Relay

Fault Relay

Delaying Relay

Extinguishing Status Key Relay

3

GCU Panel

. . .

n

ML-3202
8 way Input / Output (I/O) Module

TCP-IP

TCP-IP

INTERNET (TCP/IP)

ML-1633.X
SPRVSR+ Graphical Monitoring and Management Software

ML-12012.C
Other system SGC module, TCP/IP output

ML-3612
Ex Manager Software

ML-0515
Switched mode power supply (SMPS)

Selected Samples from Our References

www.mavili.com.tr/en

Follow us...

.../mavilielektronikglobal

Mavili Elektronik Tic. ve San. A.S. reserves the right to change the design or specification of these products without notice. Mavili Elektronik Tic. ve San. A.Ş. is free to decide whether to supply or not the products to the market. Images represented in the catalog are for reference. Mavili Elektronik Tic. ve San. A.Ş. reserves the right of each product in the catalog. Rights reserved works cannot be copied, quoted, published or used elsewhere without the consent of the owner. 2025/V0

MM.KTL.YD.017 Rev. No:2