



### **MTech Fire Detection Systems**

First line of defense in protecting lives and property. Committed to delivering intelligent cutting-edge fire safety solutions, that are accurate and design flexible.

Founded in 2012 as a subsidiary of Matael Ltd., MTech Fire Detection Systems was established to address a growing need for innovative fire safety and smoke detection solutions, suitable for the needs of the UL international markets in quality that meets the most rigorous fire safety standards.

Since then, we've focused on design, development and manufacturing of best-in-class products. We've expanded our outreach to the international market, and have established local presence in Israel, Russia, Uzbekistan, and the USA (new).

Today, MTech's fire systems are installed in numerous sites across the globe, including hospitals and medical facilities, airports, hotels, banks, shopping centers, sports arenas, public buildings, military, manufacturing and high tech.

### Mission & Values

At MTech, our mission is to provide flexible, cutting-edge solutions and support to our clients, at the highest quality and shortest possible turnaround. Our team is made up of veteran engineers with over 20 years of combined experience in every aspect of the industry.

We bring forward thinking and innovation into everything we do, and tailor solutions to the specific needs of each and every client.

We believe that today, more than ever, companies need smart and flexible solutions, and a partner that is able to provide an extra layer of assurance.

We are that kind of partner.













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## Analog Addressable

## **SYSTEM**

The MTech's family of Analog Addressable products come together as a system, in numerous options that are customized to the needs of each site and project. It includes panels, detectors, interfaces, and other ancillaries which are fully compatible with each other, and can be extended with products from our conventional product line.

**The MA series** of products feature networking capabilities and proprietary MTech software that make it is easy to use and configure, from the smallest to large sites.



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M-1, our one-loop analog addressable fire alarm control panel can support up to 126 XP95 and Discovery or up to 252 CoreProtocol analog addressable devices as well as a range of call points, detectors, interfaces, beacons, and loop sounders. With a large capacity, it is designed to support complex cause-and-effect programming and an extensive range of user-controllable functions. Its components all operate as part of a fully-integrated system, with the panel, detectors, interfaces, and other ancillaries working in full compatibility. The MA series of products feature networking capabilities and proprietary MTech software that make it is easy to use and configure, from the smallest to large sites.



#### **System Functionality:**

- Multiple-stage and complex cause-and-effect programming: a wide range of user-controllable functions and three stages of cause-and-effect programming per output device which meet the needs of diverse, small-to-large-scale projects.
- Full system integrity also in the event of an external short-circuit fault: when a short-circuit is detected, isolators on the devices closest to the problem automatically isolate the fault, and drive communication from both ends of the loop to sustain full communication with all system devices.
- System can be extended using local network communications to include conventional panels, while maintaining full control of inputs and outputs from the M-1.
- Complies with NFPA Standard 72 and UL864 10th Edition requirements.

- Simple and comprehensive four-row graphic display
- Easy installation and maintenance
- Internal self-testing device that is operated manually
- Quick scan of analog values of detectors connected to and report exported to excel
- Improved protection against false alarms (in case of ground fault or strong noise)
- Flexible programming abilities using virtual zones

- 1-second response to alarm or network failure
- Isolated from noise
- Protected from network communication data loss
- Can be programmed on site or by using the MTech site installer software on PC

Code	M-1
Description	Analog Addressable Fire Alarm Control Panel
	SII1220 and TR TC EAC 043-2017
Standards for Panels	Ready to work with UL267 7th Edition analog addressable smoke detector

#### Specification

Specification	
Panel Display	4-line x 16-character LCD, multilingual support
Panel Keyboard	Full numeric keyboard, Reset, Silence, Info, ACK, Enter, ESC, Navigation Rows
Panel Indication	LED indication: AC, Alarm, Trouble, Silence, Supervisory, Disable, Dialer Fault, Ground Fault and an addition 8 indications that can be configured by client
Sound	Internal alarm sounder
Number of Loops	1 SLC loops class A
Loop Powered Outputs	700 mA power for loop
Addresses Per Loop	Up to 126 XP95 and Discovery addressable devices and up to 252 CoreProtocol addressable devices
Programming Port	USB port for PC communication
Output Ports	RS485 and RS232
Network	MA-NET network card for RS- 485 network for communication up to 64 panels in network with global correlation matrix
	MA-NET TCP/IP - network card for TCP/IP network
	LNET/RS-485 for communication of up to 32 Conventional MB-202, 204 and 208 panels or/and up to 4 remote annunciators MA-1050A per FACP
Event History	Buffer for 2,000 events with date and time stamp and 10,000 events in MA-NET card buffer
Service	Built-in walk test
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#### Power

Input Voltage	Input 120VAC 3.2A / 230VAC 1.6A; 50/60Hz
Operated Voltage	24VDC 6.5A
Battery	Two 12V 7 Ah or two 12V 12 Ah (dependent)

#### Input

Programmable	Two addressable inputs on board
DRC	Dry contact control (for door tamper switches)

#### Output

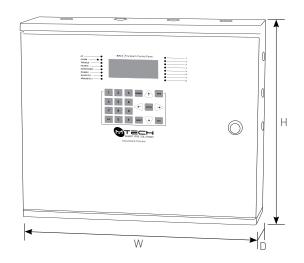
Panel Sounder Circuit	1 O/P NACs (600mA)
Panel Auxiliary Outputs	AUX 24VDC 2A, AUX resettable 24VDC 300mA
Panel Relays	alarm (1), trouble (1), programmable (3)

#### Physical

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH
<b>Physical Construction</b>	Metal box
Color	RAL 3000
Weight	7 kg
Ingress Protection	IP31
Cable Entries	top (4), right (3), left (1)

#### Compatibility

Suitable for Use With	MTech MA Analog Addressable Fire System
	MTech MB Conventional Fire System
	MA-1050A Remote Annunciator
	MA-Monitoring Graphical Management Software
	MA-Monitoring Graphical Management Software



#### **Dimensions:**

**W.** 370 mm | **H.** 393 mm | **D.** 112 mm



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M-1	English version
M-1RUS	Russian version

MA-1 is MTech's multi-loop analog addressable fire alarm control panel which can connect up to 10 loops, with each loop supporting up to 126 XP95 and Discovery or up to 252 CoreProtocol analog addressable devices, as well as a range of call points, detectors, interfaces, beacons, and loop sounders. With a large capacity, it is designed to support complex cause-and-effect programming and an extensive range of user-controllable functions.

Its components all operate as part of a fully-integrated system, with the panel, detectors, interfaces, and other ancillaries working in full compatibility. The MA series of products feature networking capabilities and proprietary MTech software that make it is easy to use and configure, from the smallest to large sites.



#### **System Functionality:**

- Multiple-stage and complex cause-and-effect programming: a wide range of user-controllable functions and three stages of cause-and-effect programming per output device which meet the needs of diverse, small-tolarge-scale projects.
- Full system integrity also in the event of an external short-circuit fault: when a short-circuit is detected, isolators on the devices closest to the problem automatically isolate the fault, and drive communication from both ends of the loop to sustain full communication with all system devices.
- System can be extended using local network communications to include conventional panels, while maintaining full control of inputs and outputs from the MA-1.
- Complies with NFPA Standard 72 requirements, and listed by Underwriters Laboratories under the UL864 10th Edition.

- Simple and comprehensive four-row graphic display
- Easy installation and maintenance
- Internal self-testing device that is operated manually
- Quick scan of analog values of detectors connected to and report exported to excel
- Improved protection against false alarms (in case of ground fault or strong noise)
- Flexible programming abilities using virtual zones
- 1-second response to alarm or network failure
- Isolated from noise
- Protected from network communication data loss
- Can be programmed on site or by using the MTech site installer software on PC

Code	MA-1
Description	Analog Addressable Fire Alarm Control Panel, UOJZ.S36158
	UL864 10th Edition, SII1220 and TR TC EAC 043-2017
Standards for Panels	Ready to work with UL267 7th Edition analog addressable smoke detector

Specification	
Panel Display	4-line x 16-character LCD, multilingual support
Panel Keyboard	Full numeric keyboard, Reset, Silence, Info, ACK, Enter, ESC, Navigation Rows
Panel Indication	LED indication: AC, Alarm, Trouble, Silence, Supervisory, Disable, Dialer Fault, Ground Fault and an addition 8 indications that can be configured by client
Sound	Internal alarm sounder
Number of Loops	1 SLC loops class A with option to add up to 10-loops class A
Loop Powered Outputs	700 mA power for loop
Addresses Per Loop	Up to 126 XP95 and Discovery analog addressable devices and up to 252 CoreProtocol analog addressable devices
Programming Port	USB port for PC communication
Output Ports	RS485 and RS232
-	MA-NET network card for RS- 485 network for communication up to 64 panels in network with global correlation matrix
Network	MA-TCP/IP - network card for TCP/IP network
	LNET/RS-485 for communication of up to 32 Conventional MB-202, 204 and 208 panels or/and up to 4 remote annunciators MA-1050A per FACP
Event History	Buffer for 2,000 events with date and time stamp and 10,000 events in MA-NET card buffer
Service	Built-in walk test
Power	

#### Power

Tower	
Input Voltage	Input 120VAC 3.2A / 230VAC 1.6A; 50/60Hz
Operated Voltage	24VDC 6.5A
Battery	Two 12V 7 Ah or two 12V 12 Ah (dependent)
Innut	

Programmable	2 addressable inputs onboard
DRC	Dry contact control (for door tamper switches)

#### Output

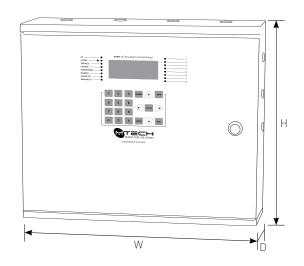
Panel Sounder Circuit	1 O/P NACs (600mA)
Panel Auxiliary Outputs	AUX 24VDC 2A, AUX resettable 24VDC 300mA
Panel Relays	alarm (1), trouble (1), programmable (3)

#### **Physical**

Environmental Operating Temperature	0°C to - 49°C
Humidity (Non-Condensing)	0 to 93% RH
<b>Physical Construction</b>	Metal box
Color	RAL 3000
Weight	7 kg
Ingress Protection	IP31
Cable Entries	top (4), right (3), left (1)

#### Compatibility

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Suitable for Use With	MTech MA Analog Addressable Fire System
	MTech MB Conventional Fire System
	MA-1050A Remote Annunciator
	MA-Monitoring Graphical Management Software
	Management Software



#### **Dimensions:**

**W.** 370 mm | **H.** 393 mm | **D.** 112 mm





Order (	Code:
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MA-1	English version
MA-1RUS	Russian version

MA-1000A is an intelligent analog addressable fire alarm control panel with a two-loop configuration which supports up to 126 XP95 and Discovery devices or up to 252 Soteria addressable devices per loop, as well as a variety of call points, detectors, interfaces, beacons, and loop sounders.

It has large and is suitable for complex cause-andeffect programming as well as an extensive range of user-controllable functions. The perfect for commercial and industrial applications and projects that range from small to large sites.

All components of the MA fire detection system family operate as part of a fully-integrated system, with panel, detectors, interfaces, and other ancillaries working in full compatibility. The MA product series is easy to configure thanks to networking capabilities and proprietary MTech software.



#### **System Functionality:**

- Multiple-stage and complex cause-and-effect programming: a wide range of user-controllable functions and three stages of cause-and-effect programming per output device which meet the needs of diverse, small-to-large-scale projects.
- Full system integrity also in the event of an external short-circuit fault: when a short-circuit is detected, isolators on the devices closest to the problem automatically isolate the fault, and drive communication from both ends of the loop to sustain full communication with all system devices.
- Local network which extends MA-1000A to include conventional panels from the MTech range of products to the panel while maintaining panel's full control of inputs and outputs for extinguisher or small office control.
- Complies with NFPA Standard 72 requirements, and listed by Underwriters Laboratories under the UL864 10th Edition.

- Simple and comprehensive four-row graphic display
- Easy installation and maintenance
- Internal self-testing device that is operated manually
- Quick scan of analog values of detectors connected to and report exported to excel
- Improved protection against false alarms (in case of ground fault or strong noise)
- Flexible programming abilities using virtual zones
- 1-second response to alarm or network failure
- Isolated from noise
- Protected from network communication data loss
- Can be programmed on site or by using the MTech site installer software on PC

Code	MA-1000A
Description	Analog Addressable Fire Alarm Control Panel, UOJZ.S36158
Standards	UL864 10th Edition, SII1220 and TR TC EAC 043-2017

#### Specification

Specification	
Panel Display	4-line x 16-character LCD display, multilingual support
Panel Keyboard	Full numeric keyboard: Reset, Silence, Forward, ESC, Enter
Panel Indication	LED indication: AC, Alarm, Trouble, Silence, Supervisory
Sound	Internal alarm buzzer
Number of Loops	2 SLC loops class A with option of 4-loop class B operation
Loop Powered Outputs	700 mA power for loop
Addresses Per Loop	Up to 126 XP95 and Discovery analog addressable devices Up to 252 Soteria analog addressable devices
Programming Port	USB port for PC communication
Output Ports	RS485 and RS232
-	MA-NET network card for RS-485 network for communication of up to 64 panels in a network with global correlation matrix
Network	MA-NET TCP/IP network card for TCP/IP network
	LNET/RS-485 for communication up to 32 conventional MB-202, 204 and 208 panels and/or up to 4 remote annunciators MA-1050A per FACP
Event History	Buffer for 2,000 events with date and time stamp as well as 10,000 events in MA-NET card buffer
Service	Built-in walk test
Power	

#### Power

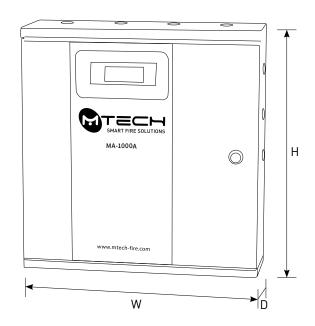
Input Voltage	Input 120VAC 3.2A / 230VAC 1.6A; 50/60Hz	
Operated Voltage	24VDC 6.5A	
Battery	Two 12V up to 20 Ah	
Output		
Panel NACs	4 O/P NACs (600mA)	
Panel Relays	alarm (1), trouble (1), programmable (3)	

#### **Physical**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH
Physical Construction	Metal box
Color	RAL 3000
Weight	7 kg
Ingress Protection	IP31
Cable Entries:	Top (4), right (11), left (2)

### Compatibility

Suitable for Use With	MTech MA Analog Addressable Fire System	
	MTech MB Conventional Fire System	
	MA-1050A Remote Annunciator	
	MA-1000FSCS Smoke Control System	
	MA-Monitoring Graphical Management Software	



#### **Dimensions:**

**W.** 370 mm | **H.** 393 mm | **D.** 112 mm





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MA-1000A	English version
MA-1000ARUS	Russian version

**MA-1000** is a two-loop analog addressable fire alarm control panel which supports up to up to 200 MTECH OEM / Cooper Eaton analog addressable devices per loop, as well as a combination of call points, detectors, interfaces, beacons, and loop sounders.

The panel is suitable for a wide range of commercial and industrial applications.

It assigns multiple addresses and uses spur tolerant soft addressing to minimize installation time, removing the potential for errors associated with manual addressing. It saves addresses of removed devices for future use, without affecting remaining devices.

All components of the MA fire detection system family operate as part of a fully-integrated system, with panel, detectors, interfaces, and other ancillaries working in full compatibility. The MA product series is easy to configure thanks to networking capabilities and proprietary MTech software.



#### **System Functionality:**

- Multiple-stage and complex cause-and-effect programming: a wide range of user-controllable functions and three stages of cause-and-effect programming per output device which meet the needs of diverse, small-to-large-scale projects.
- Full system integrity also in the event of an external short-circuit fault: when a short-circuit is detected, isolators on the devices closest to the problem automatically isolate the fault, and drive communication from both ends of the loop to sustain full communication with all system devices.
- Local network which extends MA-1000 to include conventional panels from the MTech range of products to the panel while maintaining panel's full control of inputs and outputs for extinguisher or small office control.
- Utilizes soft addressing during commissioning: addresses are locked until manually altered, enabling simple additions and deletions without affecting unrelated addresses.
- Designed to accommodate future expansion, also after initial programming of the system, by allocating the next available address without altering existing addressnumber allocations.
- Approved as a Releasing Panel according to UL 864 10th Edition and NFPA 2001 requirements.
- Complies with NFPA Standard 72 and Standard 92 requirements, and listed by Underwriters Laboratories under the UL864 10th Edition and in the UUKL for Smoke Control category.

- Simple and comprehensive four-row graphic display
- Easy installation and maintenance
- Internal self-testing device that is operated manually
- Quick scan of analog values of detectors connected to and report exported to excel
- Improved protection against false alarms (in case of ground fault or strong noise)
- 1-second response to alarm or network failure
- Isolated from noise

- Protected from network communication data loss
- Can be programmed on site or by using the MTech site installer software on PC
- Automatic line break finder class A only (turns-on LED near break)
- Auto learning capabilities/automatic soft addressing of all installed devices on loop
- Includes loop-check function (checks the system for extra faulty or turned off devices)

Code	MA-1000
Description	Analog Addressable Fire Alarm Control Panel, UOJZ.S36158
Extinguisher	Water releasing support, SYZV. S36158
Smoke Control	Dedicated /nondedicated system, UUKL.S36158
Standards	UL864 10th Edition,SII1220 and TR TC EAC 043-2017

#### **Specification**

4-line x 16-character LCD, multilingual support		
Full numeric keyboard: Reset, Silence, Forward, ESC, Enter		
LED indication: AC, Alarm, Trouble, Silence, Supervisory		
Internal alarm buzzer		
2 SLC loops class A with option of 4-loop class B operation		
300 mA power for loop		
Up to 200 analog addressable devices		
USB port for PC communication		
RS485 and RS232		
MA-NET network card for RS-485 network for communication up to 32 panels in network with global correlation matrix		
MA-NET TCP/IP network card for TCP/IP network		
LNET/RS-485 – for communication up to 32 conventional MB-202, 204 and 208 panels or/and up to 4 remote annunciators MA-1050A per FACP		
Buffer for 2,000 events with date and time stamp and 10,000 events in MA-NET card buffer		
Built-in walk test		

#### **Power**

Input Voltage	Input 120VAC 3.2A / 230VAC 1.6A 50/60Hz
Operated Voltage	24VDC 6.5A
Battery	Two 12V up to 20 Ah
Output	

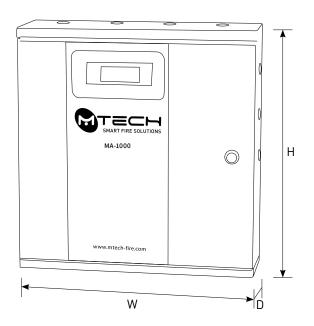
Panel Nacs	4 O/P NACs (600mA)		
Panel Relays	5 relays: alarm (1), trouble (1), programmable (3)		

#### Physical

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH
Physical Construction	Metal box
Color	RAL 3000
Weight	7 kg
Ingress Protection	IP31
Cable Entries:	Top (4), right (11), left (2)

#### Compatibility

Suitable for Use With	MTech MA Analog Addressable Fire System
	MTech MB Conventional Fire System
	MA-1050A Remote Annunciator
	MA-1000FSCS Smoke Control System
	MA-Monitoring Graphical Management Software



### **Dimensions:**

**W.** 370 mm | **H.** 393 mm | **D.** 112 mm





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MA-1000	English version
MA-1000RUS	Russian version

MA-1050M is an addressable power supply and battery charger with up to three 24VDC outputs. It operates with Mtech Fire Alarm Control Panels (MA-1, MA-1000A and MA-1000) and Apollo and Eaton addressable non-loop powered devices. It also can be used as a primary power supply for MA-1050A network annunciator.



#### **System Functionality:**

- Addressable by Mtech FACPs
- Selectable charging current 5 AH to 20AH
- Brownout detection
- Battery /battery charging supervision

- Secondary power auxiliary outputs: 24@2A and 24V@0,3A 24V@4A
- Complies with NFPA Standard 72 requirements, and listed by Underwriters Laboratories under the UL864 10th Edition

- Comes with networking capabilities and proprietary MTech software for easy configuration and maintenance
- Can be programmed on site or by using the MTech site installer software on PC

Code	MA-1050M	
Description	Addressable Power Supply and Battery Charger, UOJZ.S36158	
Standards for Panels	UL864 10th Edition, TR TC EAC 043-2017	

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Specification		
Panel Display	4-line x 16-character LCD, multilingual support	
Panel Keyboard	Full numeric keyboard, Reset, Silence, Info, ACK, Enter, ESC, Navigation Rows	
Panel Indication	LED indication: AC, Trouble, Silence, Ground Fault and an addition 8 indications that can be configured by client	
Sound	Internal alarm sounder	
Network	MA-NET network card for RS- 485 network for communication up to 64 panels in network with global correlation matrix	

#### Power

Input Voltage	Input 120VAC 3.2A / 230VAC 1.6A; 50/60Hz
Operated Voltage	24VDC 6.5A
Battery	Two 12V 7 Ah or two 12V 20 Ah (dependent)

#### Output

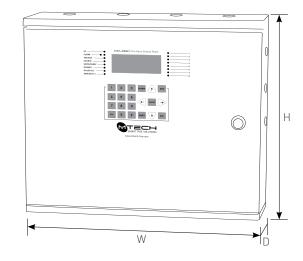
Power Supply	AUX 24VDC 2A,4A AUX resettable			
Auxiliary Outputs	24VDC 300mA			

#### **Physical**

,	
Environmental Operating Temperature	0°C to - 49°C
Humidity (Non-Condensing)	0 to 93% RH
Physical Construction	Metal box
Color	RAL 3000
Weight	7 kg
Ingress Protection	IP31
Cable Entries	top (4), right (3), left (1)

#### Compatibility

Companionity		
Suitable for Use With	MTech MA Analog Addressable Fire System	
	MTech MB Conventional Fire System	
	MA-1050A Remote Annunciator	
	MA-Monitoring Graphical Management Software	



### **Dimensions:**

**W.** 370 mm | **H.** 393 mm | **D.** 112 mm





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MA-1050M	English version
MA-1050MRUS	Russian version

The MA-1050A is a remote annunciator that can be used with any MA and MB fire alarm control panels, to monitor fire detection system indication and control in public spaces such as hotels, lobbies or restaurants where there is a risk the main panel will be damaged if installed in the designated area.



#### **System Functionality:**

- Includes 4-line-64-character backlit LCD display with a user-friendly system messaging window and keypad built into the main control panel.
- Offers two levels of user codes to limit programming access only to authorized personnel.
- Supports up to four additional remote annunciators with matching control and display layout.
- MA-1050A connects to the LNET on the FACP and requires minimal panel programming.
- Subject to authorized permissioning users can:
  - Mute/Silence/Resound & Reset
  - View faults/disablements/alarms/inputs/outputs/ supervisory
  - View/enable/disable zones
  - View/enable/disable devices
  - Test display/zones/outputs/buzzer and LEDs
  - Set network time and date

- Large multilingual user interface
- Membrane keypad
- Accepts both user codes or fire fighter's key (optional)
- Large reset and silence keypad buttons

- Surface-mount or flush-mount installation options
- Mimics all display information from the host panel
- Local sounder can be enabled or disabled at the FACP
- Easy to install and operate

Code	MA-1050A		
Description	Remote annunciator, fire alarm equipment UOXX.S36158		
Standards	UL864 10th edition, SII1220 and TR TC EAC 043-2017		

#### **Specification**

Panel Display	4-line x 16-character LCD, multilingual support
Panel Keyboard	Full numeric keyboard, Reset, Silence, Forward, ESC, Enter
Panel Indication	LED indication: AC, Alarm, Trouble, Silence, Supervisory
Sound	Internal alarm sounder
Programming Port	USB
Network	LNET/RS-485 up to 4 remote annunciators MA-1050A per MA or MB FACP
Event History	Buffer for 1000 events with date and time stamp

#### Power

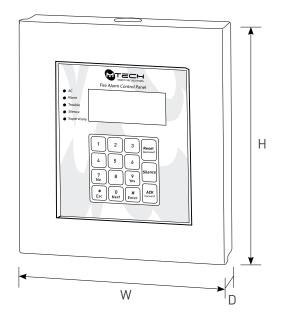
Operated Voltage	24VDC
Standby Current	36mA
Alarm Current	43.2mA

#### **Physical**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH
Physical Construction	Metal box
Color	RAL 3000
Weight	0.34 kg
Ingress Protection	IP31

#### Compatibility

Suitable for Use With	MTech MA Analog Addressable Fire System	
	MTech MB Conventional Fire System	



#### **Dimensions:**

MA-1050ARUS

**W.** 120 mm | **H.** 200 mm | **D.** 50 mm





Order Code:	
MA-1050A	English version

Russian version

The MA-1050NET is a touch screen annunciator panel for monitoring fire detection indication on any of MTech's MA and MB fire alarm control panels. It is used in busy public spaces (hotels, lobbies or restaurants for example) where it's better to use a remote panel, then risking the main panel will be damaged.

#### **System Functionality:**

- Wide range touch screen displays (10.4"-21") with MAmonitoring graphical management software
- Access via two-level user codes, to limit access and programming ability to authorized personnel only
- Connects to MA-NET on the FACP and requires minimal panel programming
- Subject to authorized permissioning users can:
  - Mute/Silence/Resound & Reset
  - View faults / disablements / alarms / inputs / outputs / supervisory
  - View/enable/disable zones
  - View/enable/disable devices
  - Test display/zones/outputs/buzzer and LEDs
  - Set network time and date

#### **Features & Benefits:**

- 10.4"-21" touch screen displays
- Remote -control terminal
- Monitoring software with interactive 3D maps and zone plans
- Surface-mount or flush-mount installation options
- Mimics all display information from the host panel
- Local sounder can be enabled or disabled at the FACP
- Easy to install and operate



Order Code:
MA-1050NET

#### **Technical Specifications:**

Code	MA-1050NET
Description	Touch Screen Remote Annunciator, fire alarm equipment UOXX.S36158
Standards	UL864 10th edition

#### **Specification**

Panel Display	10.4"-21" touch screen displays		
Sound	Internal alarm sounder		
Network	RS-232 for connection to MA-NET		
Operating System	Windows 10		

#### Power

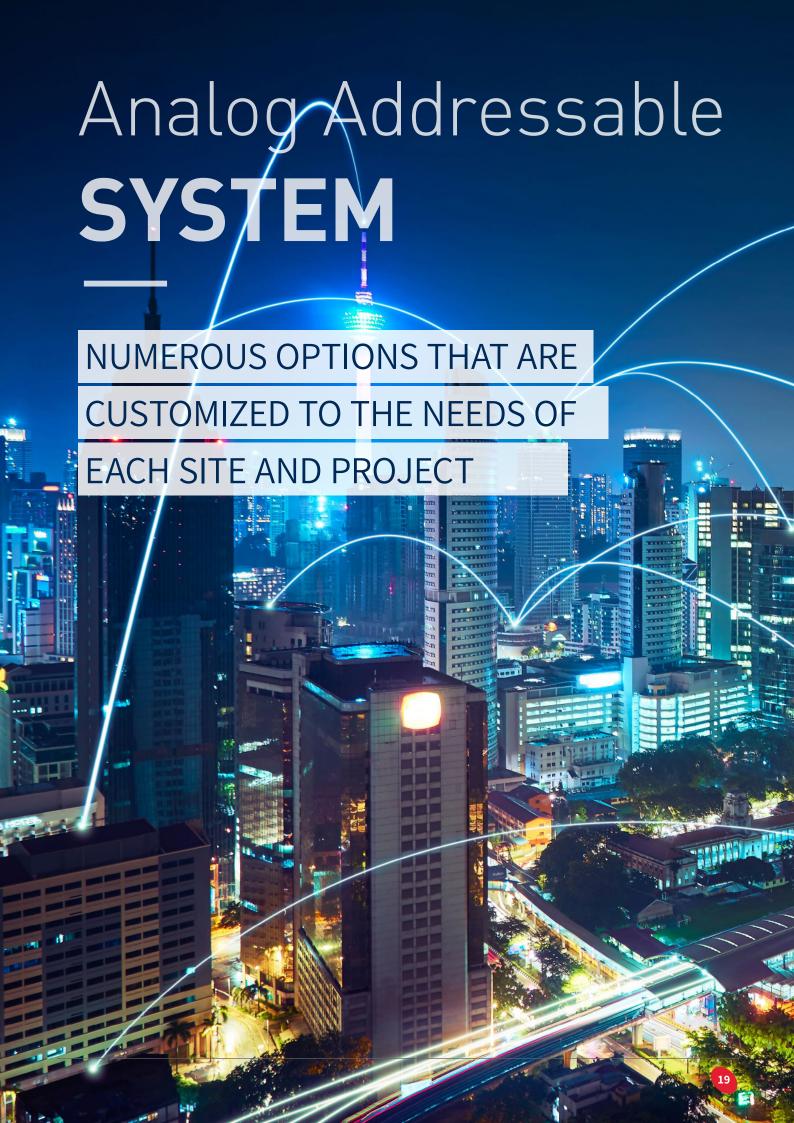
Operated Voltage	24VDC

#### **Physical**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH
Physical Construction	Metal box
Weight	0.75 kg
Ingress Protection	IP31

#### Compatibility

Suitable for Use With	MTech MA Analog Addressable Fire System
	MTech MB Conventional Fire System
	MA-Monitoring Graphical Management Software



MA-320 is an optical (photoelectric) smoke detector designed for MA analog addressable fire systems, providing fast response to slow burning or smoldering fires with visible smoke particles.



#### **System Functionality:**

- Operates on low current, has built-in short circuit isolators
- Advanced LED design with a 360° view indicating the status of the detector;
- Illuminates continuously during fire conditions
- Flashes to confirm communication with the control panel
- Soft addressed
- Single address

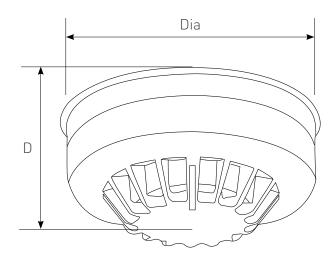
- Quick and simple to install, operate and service
- Simple clean design
- Cable entry from rear or side of base
- Removable detector chamber

- Wiring via common mounting base
- Drift compensation
- Positive lock indicator to ensure detector is properly installed on base
- Two-second start-up and reset time

Code	MA-320	
Description	Analog Addressable Optical Smoke Detector, UROX.S36306	
Standards	UL268 6th edition, EN54-3, SII1220, TR TC EAC 043-2017	

#### **Specification**

Specification			
Operating Voltage	18V dc to 30V dc		
Standby Current	220µA (max)		
Alarm Current	5mA (max)		
Addressing Mode	Auto address		
Mounting Position	Ceiling in open areas		
Mounting Options	Addressable MA-300 detector base		
	Addressable MA-BS sounder base		
	Addressable MA-BSH sounder beacon base		
Area Coverage	100m² (subject to local standard)		
System Wiring	Min. 1.5mm, 2 core loop or spur		
Indication	360° visibility light pipe		



#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### Physical

Construction	PC/ABS		
Colour	White		
Weight	0.120 kg		
Compatibility			
Suitable for Use With	MTech MA Analog Addressable		

Fire System

#### **Dimensions:**

**Dia.** 101 mm | **D.** 43 mm | **D (Incl. Base).** 55 mm





Ord	er	Cod	de:

MA-320

MA-330 is a multi-mode analog addressable heat detector, a reliable fire-detection solution for environments prone to false alarms due to high levels of dust, fume, steam, or smoke.

The device has a three-mode heat sensor which alerts at 77°C, 92°C, and rate of rise in temperature



#### **System Functionality:**

- Operates on low current, has built-in short circuit isolators
- Advanced LED design with a 360° view indicating the status of the detector;
- Illuminates continuously during fire conditions
- Flashes to confirm communication with the control panel
- Soft addressed
- Single address
- Can be locked to prevent unauthorized sensor removal

- Quick and simple to install, operate and service
- Simple clean design
- Cable entry from rear or side of base
- Removable detector chamber

- Wiring via common mounting base
- Drift compensation
- Positive lock indicator to ensure detector is properly installed on base
- Two-second start-up and reset time

Code	MA-330
Description	Analog Addressable Multi-Mode Heat Detector, UQGS.S36306
Standards	UL268 6th edition, EN54-3, SII1220, TR TC EAC 043-2017

#### Specification

Specification	
Operating Voltage	18V dc to 30V dc
Standby Current	220µA (max)
Alarm Current	5mA (max)
Addressing Mode	Auto address
Mounting Position	Ceiling in open areas
Mounting Options	Addressable MA-300 detector base
	Addressable MA-BS sounder base
	Addressable MA-BSH sounder beacon base
Area Coverage	50m² (subject to local standard)
System Wiring	Min. 1.5mm, 2 core loop or spur
Indication	360° visibility light pipe

#### **Heat Class**

Rate of Rise	A1R
Fixed Heat 77°C	BS
Fixed Heat 90°C	CS

#### Alarm Temperature (Static)

AIR	60°C
BS	77°C
cs	90°C
Indication	360° visibility light pipe

#### Environmental

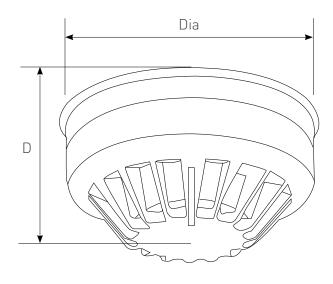
Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	PC/ABS
Colour	White
Weight	0.120 kg

#### Compatibility

Suitable for Use With	MTech MA Analog Addressable Fire System
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#### **Dimensions:**

**Dia.** 101 mm | **D.** 43 mm | **D (Incl. Base).** 55 mm





Order Code:		
MA-330		

MA-340 is an advanced, multi-featured analog addressable multisensor smoke and heat detector designed for the MA analog addressable fire system family. Like the MA 320 smoke detector smoke detector, it quickly detects fast, clean burning and smoldering fires while its heat sensors provide an additional layer of protection as the include a alarm threshold which improves the rejection of many factors that cause common false alarms with an additional alarm raised when temperature reaches 60°C or more.



#### **System Functionality:**

- Operates on low current, has built-in short circuit isolators
- Advanced LED design with a 360° view indicating the status of the detector;
- Illuminates continuously during fire conditions
- Flashes to confirm communication with the control panel
- Soft addressed
- Single address

- Quick and simple to install, operate and service
- Simple clean design
- Cable entry from rear or side of base
- Removable detector chamber
- Wiring via common mounting base

- Drift compensation
- Positive lock indicator to ensure detector is properly installed on base
- Two-second start-up and reset time

Code	MA-340
Description	Analog Addressable Multisensor Smoke and Heat Detector, UQGS.S36306
Standards	UL268 6th edition, EN54-3, SII1220, TR TC EAC 043-2017

#### **Specification**

Operating Voltage	18V dc to 30V dc
Standby Current	220µA (max)
Alarm Current	5mA (max)
Addressing Mode	Auto address
Mounting Position	Ceiling in open areas
Mounting Options	Addressable MA-300 detector base
	Addressable MA-BS sounder base
	Addressable MA-BSH sounder beacon base
Area Coverage	50m² or 100m² (subject to local standard)
System Wiring	Min. 1.5mm, 2 core loop or spur

#### **Heat Class**

Rate of Rise	A1R
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#### **Alarm Temperature (Static)**

AIR	60°C
Indication	360° visibility light pipe

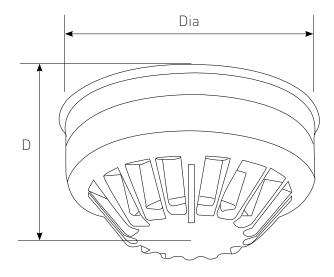
#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	PC/ABS
Colour	White
Weight	0.120 kg
Compatibility	
Suitable for Use With	MTech MA Analog Addressable

Fire System



#### **Dimensions:**

**Dia.** 101 mm  $\mid$  **D.** 43 mm  $\mid$  **D (Incl. Base).** 55 mm





Order Code:

MA-340

MA-300 is a standard addressable detector base designed for detectors in the MA analog addressable series.

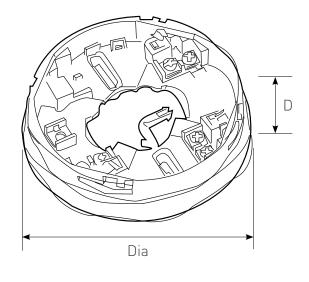
### **System Functionality:**

- Includes a unique indicator that signals when the sensor is fitted correctly and insures proper installation
- Separate loop in-and loop-out terminals
- Side cable entry with multiple points
- Dedicated earth terminal



#### **Features & Benefits:**

- Easy to install, maintain and service
- Simple to terminate wiring
- Integrated sensor shorting link



### **Technical Specifications:**

Code	MA-300
Description	Standard Addressable Detector Base, UQGS.S36306, UROX.36306
Standards	UL 268 6th edition, EN54, SII 1220, TR TC EAC 043-2017
Suitable for	Ducts, D(I) and D(ST), UROX

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	PC/ABS
Color	White
Weight	0.2 kg

#### Compatibility

Suitable for Use With	MTech Analog Addressable Detector range
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#### **Dimensions:**

**Dia.** 104 mm | **D.** 22 mm





Order Code:

MA-300

Micro, single-channel input interface that enables the connection of non-addressable applications to an addressable fire alarm system. Fire and non-fire applications may include volt-free contacts such as sprinkler system flow switches, auxiliary panel fire/fault signals, and non-fire input signals like flow valve open contacts, generator start up, fire door closed and others. The unit is compatible with the MA family of analog addressable fire control panels.

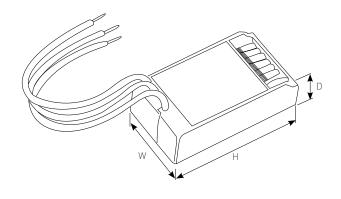


#### **System Functionality:**

- Soft-addressed compact interface fitted for short-circuit isolators
- Provides a single address for up to 200 units per loop
- Panel identifies equipment connected to the loop by name and address thanks to an auto-learning process
- Built-in short-circuit isolator
- Inputs monitored for open and short circuit fault conditions
- Suitable for monitoring normally open volt free contacts

#### **Features & Benefits:**

- Quick and simple to install
- Small & compact
- · No hard addressing required



#### **Technical Specifications:**

Code	MA-IN
Description	Addressable Micro Single Channel Input Unit, UOXX.36306
Standards	UL864 10th Edition, SII1220, TR TC EAC 043-2017

#### **Specification**

Operating Voltage	18 - 30VDC	
Quiescent Current	< 310µA	

#### Inputs

Trigger Resistance	5Κ6Ω
End of Line Resistance	22ΚΩ
Short Circuit Fault Threshold Resistance	1ΚΩ
Open Circuit Fault Threshold Resistance	33ΚΩ

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	PC/ABS
Weight	0.078 kg
Ingress Protection	IP40

#### Compatibility

Suitable for Use With	MTech Analog Addressable Fire System
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#### **Dimensions:**

**W.** 35 mm | **H.** 63 mm | **D.** 18.5 mm

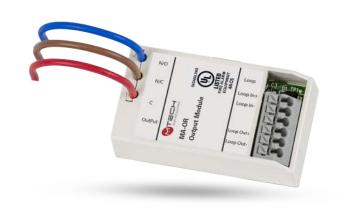




Order Code:

MA-IN

Micro, single-channel output unit for activating low voltage circuits (24VDC at 1A maximum) such as fire door retainers, HVAC, and plant shutdown control circuits, using a set of non-latching relay contacts. The unit is designed for the MA family of analog addressable products, and suitable for systems with hundreds of devices.

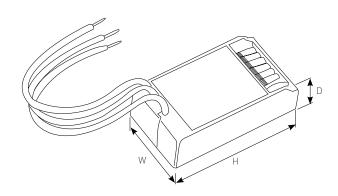


#### **System Functionality:**

- Soft-addressing automates the assignment of addresses
- Panel identifies equipment connected to the loop by name and address thanks to an auto-learning process
- Single address with up to 200 units per loop
- Loop integrity and reliability of fire detection and alarm systems is kept thanks to short -circuit isolators

#### **Features & Benefits:**

- Quick and simple to install
- Small & compact
- Plug-and-play with no hard addressing required
- Can be programmed on site or by using the MTech site installer software on PC



#### **Technical Specifications:**

Code	MA-OR
Description	Addressable single channel output unit, UOXX.S36306
Standards	UL864 10th Edition, SII1220, TR TC EAC 043-2017

#### **Specification**

Operating Voltage	18 - 30VDC
Quiescent Current	<310µA

#### **Output Relay**

Switching voltage	24-30VDC
Contact rating	1A
Switching power	30 Watts
Max line impedance	16Ω

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	PC/ABS
Weight	0.078 kg
Ingress Protection	IP40

#### Compatibility

Suitable for Use With	MTech Analog Addressable Fire System
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#### **Dimensions:**

**W.** 35 mm | **H.** 69 mm | **D.** 18.5 mm





Order Code:

MA-OR

**MA-Zone** is an intelligently-designed and costeffective input monitor which acts as an addressable adaptor to make conventional devices compatible with addressable systems, and as such connects a conventional network with an analog addressable panel, using a single address.

It is light and compact, fast and easy to install, and operates with the MA analog addressable range.

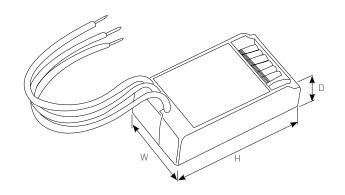


#### **System Functionality:**

- Connects up to 20 conventional detectors or call points with each other, connecting them into the MA-1000 loop
- Active end-of-line monitoring
- Built-in short circuit isolator (no external isolator required)
- Input monitored for open, short circuit and earth contact faults
- Programable by MTech site installer software
- Plug-and-play soft addressed, no hard addressing required
- Panel identifies equipment connected to the loop by name and address thanks to an auto-learning process

#### **Features & Benefits:**

- Easy to expand a system using existing wiring ldeal for large-room monitoring
- Quick and simple to install
- · Compact size



#### **Technical Specifications:**

Code	MA-ZONE
Description	Addressable Micro ZONE Monitor Unit, UOXX.S36306
Standards	UL864 10th Edition, SII1220, TR TC EAC 043-2017

#### **Specification**

Specification	
Current (Nom)	4.9mA to 5.0mA
Operating Voltage (Nom)	24VDC
Voltage	21VDC to 26 VDC
Current	17mA to 40mA
Line Impedance (Max)	25Ω
End of Line Resistor	5.6kΩ
Fire Input Trigger	680kΩ

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	PC/ABS
Weight	0.078 kg
Ingress Protection	IP40

#### Compatibility

Suitable For Use With MTech Analog Addressable Fire System	
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#### **Dimensions:**

**W.** 35 mm | **H.** 63 mm | **D.** 18.5 mm





Order Code:

MA-ZONE

An intelligent, addressable single input and dual output unit which connects and monitors independent non-addressable devices, and activates low-voltage circuits directly from the addressable fire control panel.

It's an all-in-one solution that is suitable for monitoring flow switches, non-fire inputs, and auxiliary panels, and switching of HVAC control circuits, plant shutdown, and fire door closure.

MA-IOR offers an extensive range of interfaces and addresses most design requirements.



#### **System Functionality:**

- Provides one input and two outputs: one for programmable NAC one for programmable relay. Input and NAC output are monitored for open short-circuits and earth contact faults
- Panel identifies equipment connected to the loop by name and address thanks to an auto-learning process
- · Non-latching changeover relay contacts
- External power supply connection with monitored fault
- Soft addressed
- Single address with up to 100 units per loop

- Built-in short circuit isolators
- Trigger types: Alarm, Fault, Supervisory, Fan. Trigger source can be set to global, panel, loop, zone or by address. Logic available in both AND and OR functions
- Monitoring for 24V AUX and LED indicators for 24V AUX, NAC ON state, Relay ON state
- Complies with the requirements of NFPA Standard 72, and Standard 92, and listed by Underwriters Laboratories under their UL864 10th Edition and in the UUKL for Smoke Control category

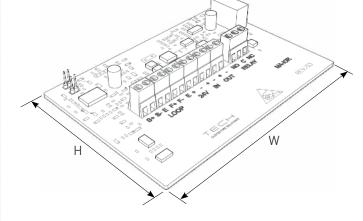
- Quick and simple to install
- Compact, and easy to incorporate with other equipment
- Plug-and-play with no hard addressing required
- · Expands using existing wiring

- Cost-effective installation with NAC, Relay, and Input using a single address
- Programmable with MTech's Site Installer software

Code	MA-IOR
Description	Addressable Single Input /Dual Output Unit, UUKL.S36158
Smoke Control	Dedicated or nondedicated system, UUKL.S36158
Standards	UL864 10th edition, SII 1220 and TR TC EAC 043-2017

#### Specification

Specification	
Operating Voltage	15VDC to 30VDC
Quiescent Current	1mA
Alarm Current	2mA
Number of Input Circuits	1
Input EOL	22kΩ 10%
Input Alarm Resistor	5,6kΩ 10%
Relay Power Rating	5A 30VDC 250V AC
Aux Power Supply	24v 2A DC
Load Per Output	500mA
Nac Eol	10kΩ 10%
Quiescent Load Current from Aux	25mA
Alarm Current from Aux	75mA



#### Environmental

Environmental Operating Temperature	0°C to - 49°C
Humidity (Non-Condensing)	0 to 93% RH

#### Physical

Weight	0.2 kg
Ingress Protection	IP00

### Compatibility

Suitable for Use With	MTech Analog Addressable Fire System
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#### **Dimensions:**

**W.** 130 mm | **H.** 90 mm | **D.** 20 mm





Order Code:

MA-IOR

An indoor addressable key activated manual call point, with a compact interface.

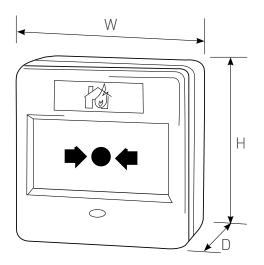
Designed to work with the MA family of analog addressable products, and suitable for systems with hundreds of devices.

#### **System Functionality:**

- Soft addressing automates assigning of addresses with an auto-learning process controlled from the panel
- Fits with short-circuit isolators to assure the integrity of the loop, and reliability of fire detection and alarm systems, also when there are faults
- High-visible LED
- Heavy-duty terminals
- Single address

#### **Features & Benefits:**

- Quick and simple to install with optional flush or surface mounting
- Easy maintenance
- Fast-fit, clip-on front cover
- Glass face housing, test key
- Plug-and-play terminal connections for fast, resettable wiring
- Available in standard or weatherproof version for outdoor use





#### **Technical Specifications:**

Code	MA-CP
Description	Addressable surface / flush mounting call point
Standards	EN54-11, SII 1220 and TR TC EAC 043-2017

#### **Specification**

Operating Voltage	17 - 32VDC
Quiescent Current	<250µA

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	PC/ABS
Color	Red
Weight	0.2 kg
Ingress Protection	IP42

#### Compatibility

Suitable For Use With	MTech Analog Addressable Fire System
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#### **Dimensions:**

**W.** 87 mm | **H.** 87 mm | **D.** 57 mm (36mm flush)



#### Order Code:

MA-CP (standard)

MA-CPWP (waterproof)

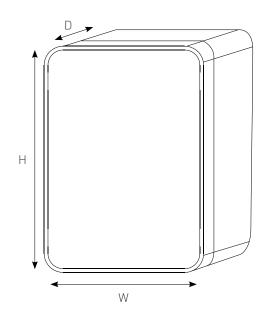
MA-PS (Pull Station) is an intelligent outdoor addressable manual call point with a compact interface, and heavy-duty metal casing for long-lasting performance, also in harsh outdoor conditions. The station is designed to work with the MA analog addressable range, and suitable for systems with hundreds of devices.

#### **System Functionality:**

- Soft addressing automates assigning of addresses with an auto-learning process controlled from the panel
- Fits with short-circuit isolators to assure the integrity of the loop, and reliability of fire detection and alarm systems, also when there are faults
- For flush mounting, designed to be fitted on a single gang back-box, for surface mounting a sheet metal back box can be utilized.
- Single/dual action options
- Class A, style 7 SLC
- · Electro-mechanical reset with special key

#### **Features & Benefits:**

- Quick and simple to install
- Easy to maintain and service
- High quality die cast metal case for lasting performance with high-gloss red enamel finish and raised white lettering
- Corrosion resistant gold plated SPST contacts





#### **Technical Specifications:**

Code	MA-PS
Description	Addressable Pull Station
Standards	UL864 and TR TC EAC 043-2017

#### Specification

Operating Voltage	17VDC to 32VDC
Quiescent Current	<250µA

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	Die cast metal
Color	Red

#### Compatibility

Suitable For Use With	MTech Analog Addressable Fire System
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#### **Dimensions:**

**H.** 118 mm | **W.** 80 mm | **D.** 80 mm





Order Code:

MA-PS

**MA-BA** is a high-efficiency, addressable loop connected LED beacon used to complement audible alarms.

It is either used in noisy areas where there is a risk that an alarm will not be heard, or in public spaces which require a solution for the hearing impaired.

The device is compatible with MTech's MA analog addressable fire systems.

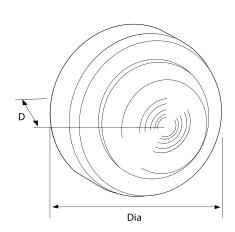


#### **System Functionality:**

- Low current consumption
- Soft addressed
- Single address
- Built-in short circuit isolators
- Loop powered
- High output LED beacon

#### **Features & Benefits:**

- Quick and simple to install
- Easy to maintain and service
- · High-efficiency design
- Mounting box



### EHC

#### **Dimensions:**

**Dia.** 95 mm | **D.** 53 mm

Order Code:

MA-BA

### **Technical Specifications:**

Code	MA-BA
Description	Addressable LED Beacon
Standards	EN54-3, TR TC EAC 043-2017

#### **Specification**

Operating Voltage	17VDC to 32VDC
Standby Current	<250mA
Alarm Current	<4.1mA
Flash Frequency	½ Hz

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	PC/ABS
Color	Red
Lens Color	Red
Weight	0.15 kg
Ingress Protection	IP54

#### Compatibility

Suitable For Use With MTech Analog Addressable Fire Alarm System	
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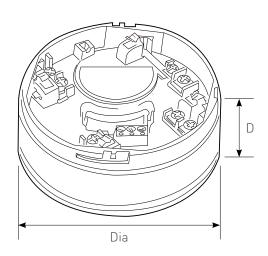
MA-BS is an addressable sounder base that can work as as a stand-alone unit, or together with MA analog addressable detectors. The base offers excellent sound output with built-in horn tone selection and volume adjustment.

#### **System Functionality:**

- Provides a single-point connection for sounder and detectors
- Built-in short circuit isolators
- · Soft addressed
- Discreet, clean appearance and few installation points
- Loop powered, and low-power consumption

#### **Features & Benefits:**

- Easy to install and maintain: surface mounted, simple clipfixing assembly
- Lockable cover plate (optional)



#### **Dimensions:**

**Dia.** 102 mm | **D.** 40 mm

Order Code:

MA-BS

EAC



#### **Technical Specifications:**

Code	MA-BS
Description	Addressable Sounder Base
Standards	EN54-3, SII1220, TR TC EAC 043-2017

#### **Specification**

•	
Operating Voltage	17VDC to 32VDC
Standby Current	<320mA
Tones (Set by Panel)	Continuous: 910Hz
	Pulsed: 910Hz/0Hz pulse 1Hz
	Two tone: 610/910Hz at 1Hz Cycle
	Slow whoop: 500-1200Hz in 3.5 Seconds
Sound Output at +/-3dB (Set by Panel)	Low volume: 77dB at <6.6mA
	Medium volume: 89dB at <8mA
	High volume: 90dB at <9mA

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	PC/ABS
Color	White
Weight	0.2 kg
Ingress Protection	IP40

#### Compatibility

Suitable For Use With	MTech Analog Addressable Detector range
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MA-BSH is an addressable sounder beacon base that offers both sound and flashing-light alerts. Comes with built-in tone and volume adjustment, with high-powered LED beacon that provides audible and visual alarm signals of the hearing impaired. Ideal for use in public and commercial spaces that require efficient solutions for the general public.



#### **System Functionality:**

- Dual functionality: a sensor mounting base (MA-320, MA-330 and MA-340 sensors to be fitted directly to the base), which can also serve as a dedicated discreet standalone device (special cover plate can be placed on base
- Provides a single-point connection for sounder and detectors
- Suitable for use in public and commercial spaces and meets EN54-23 for alarms for the hearing impaired.
- Discreet, clean appearance with few installation points
- Excellent sound output with built-in horn tone selection and volume adjustment
- Loop powered, low-power consumption.
- Built-in short circuit isolators
- Soft addressed

- Easy to install and maintain: surface mounted, simple clip-fixing assembly
- Lockable cover plate (optional)

# **Technical Specifications:**

Code	MA-BSH
Description	Addressable Sounder Beacon Base
Standards	EN54-3, SII 1220 and TR TC EAC 043-2017

# **Specification**

Operating Voltage	18VDC to 32VDC
Standby Current	<450mA
Tones	Continuous: 910Hz
	Pulsed: 910Hz/0Hz pulse 1Hz
	Two tone: 610/910Hz at 1Hz Cycle
(Set by Panel)	Slow whoop: 500-1200Hz
	in 3.5 Seconds
Sound Output	Low volume: 88dB at <6.6mA
at +/-3dB	Medium volume: 90dB at <8mA
(Set by Panel)	High volume: 93dB at <9mA
Beacon	0.5 Hz flash
Total loop resistance for correct operation of short circuit isolator:	50Ω (max)
Parallel fault resistance to be seen at the control panel for isolators to open:	200Ω (typ)
Continuous current allowable through isolator:	700mA (max)
Isolator resistance in closed state:	0.26Ω (max)
Leakage current into direct short circuit with isolator open:	14mA (max)
Voltage at which isolator changes from open to closed or closed to open state:	3.8V to 11V
Maximum switching current of isolator:	1.5A

# Environmental

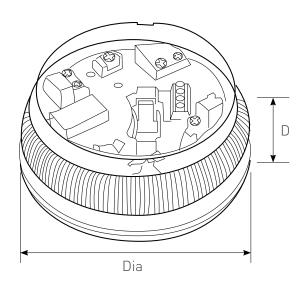
Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

# **Physical**

Construction	PC/ABS
Weight	0.2 kg
Ingress Protection	IP21

# Compatibility

Suitable For Use With	MTech Analog Addressable Detector range
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# **Dimensions:**

**Dia.** 102 mm | **D.** 40 mm



Order Code:

MA-BSH

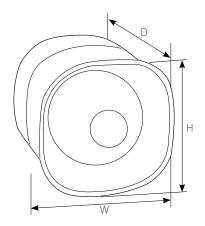
MA-S is a soft-addressed wall sounder, designed to provide audio signal fire notifications and alerts. Its low current consumption and excellent sound output levels make it an ideal low-cost solution for instructing the evacuation of occupants in environments such as offices, manufacturing sites and hotels.

# **System Functionality:**

- Soft addressed
- Single address
- Built-in short circuit isolators
- Loop powered
- Selectable tones and adjustable volume from panel
- Surface mounted, and is available in indoor and outdoor models
- Cable entry from side or rear
- Connects to connector block on main sounder body

# **Features & Benefits:**

- Simple to install, maintain and service
- Simple clip-fixing assembly with fitted base



#### **Dimensions:**



**Indoor Unit: W.** 105 mm | **H.** 105 mm | **D.** 95 mm **Outdoor Unit: W.** 108 mm | **H.** 108 mm | **D.** 103 mm

#### Order Code:

MA-S (for indoor use)

MA-SWP (for outdoor use)



# **Technical Specifications:**

Code	MA-S
Description	Addressable Wall Sounder
Standards	EN54-3, TR TC EAC 043-2017

# **Specification**

Operating Voltage	18VDC to 30VDC
Standby Current	<320µA (max)
Alarm Current	5mA (max)
Addressing Mode	Auto address
Tones (Set by Panel)	Continuous: 984Hz
	Pulsed: 984Hz/0Hz at 1Hz Cycle
	Two tone: 644/984Hz at 1Hz Cycle
	Slow whoop: 500-1200Hz in 3.5 seconds/0.5 seconds
Sound Output at +/-3dB (Set by Panel)	Low volume: 87dB at <2mA
	Medium volume: 93dB at <3mA
	High volume: 100dB at <6mA

#### **Environmental**

Environmental Operating Temperature	0°C - 49°C
Humidity (Non-Condensing)	0 to 93% RH

# **Physical**

Construction	PC/ABS
Color	Red
Weight	0.25 kg

Suitable For Use With	MTech MA Analog Addressable Fire System
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MA-SH is a loop-powered, soft-addressed wall sounder beacon with an added visual alarm device (VAD). It offers excellent sound output, combined with visual signaling, for use in situations where both options are needed - for example in areas open to the general public, noisy factories or work places where headphones are used.

Its excellent quality combined with low current consumption make it a cost-effective product commonly used in large projects.

The MA-SH comes in an indoor and outdoor version.

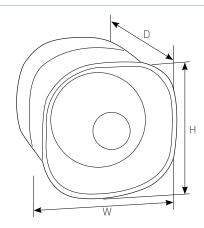


# **System Functionality:**

- Soft addressed
- Single address
- Built-in short circuit isolators
- Loop powered
- Selectable tones and adjustable volume from panel
- · Surface mounted, and is available in indoor and outdoor models
- Cable entry from side or rear
- Connects to connector block on main sounder body

#### **Features & Benefits:**

- Simple to install, maintain and service
- Simple clip-fixing assembly with fitted base



#### **Dimensions:**

EHC

**Indoor Unit: W.** 105 mm | **H.** 105 mm | **D.** 95 mm **Outdoor Unit: W.** 108 mm | **H.** 108 mm | **D.** 103 mm

Order Code:

MA-SH (for indoor use)

MA-SHWP (for outdoor use)

# **Technical Specifications:**

Code	MA-SH
Description	Addressable Wall Sounder Beacon
Standards	EN54-23, TR TC EAC 043-2017

#### **Specification**

Operating Voltage	18V dc to 30V dc
Standby Current	<320µA (max)
Alarm Current	5mA (max)
Addressing Mode	Auto address
Tones (Set by Panel)	Continuous: 984Hz
	Pulsed: 984Hz/0Hz at 1Hz Cycle
	Two tone: 644/984Hz at 1Hz Cycle
	Slow whoop: 500-1200Hz in 3.5 seconds/0.5 seconds intervals
Sound Output at +/-3dB (Set by Panel)	Low volume: 92dB at <6.5mA
	Medium volume: 97dB at <7.5mA
	High volume: 100dB at <8.5mA
Flash Energy	1Hz

#### **Environmental**

Environmental Operating Temperature	0°C - 49°C
Humidity (Non-Condensing)	0 to 93% RH

#### **Physical**

Construction	PC/ABS
Color	Red
Lenz Color	Red
Weight	0.25 kg
Cable Entry	Rear / Side

Suitable For Use With	MTech MA Analog Addressable Fire System
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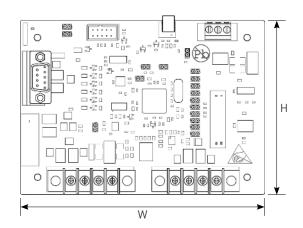
MA-NET is a network card used to create a network of up to 64 MTech analog addressable fire alarm control panels with global programming and advanced global monitoring capabilities. It can also be used as a network repeater to expand the distance between panels by up to 8km.

# **System Functionality:**

- TCP/IP interface
- Connection interface to M-1, MA-1, MA-1000 and MA-1000A fire alarm control panels; optional connection: (OR)-RS232 insulated and RS485
- Includes two operation modes: Class X (up to 64 addresses) and Class B (up to 64 addresses)
- Repeater (line boosters) up to seven units per network
- Optional ModBUS
- Includes a status indicator for each channel

#### **Features & Benefits:**

- Quick and simple and cost-effective installation
- · Easy to expand existing system using existing wiring
- Plug- and-play with no hard addressing required





# **Dimensions:**

**W.** 140 mm | **H.** 100 mm | **D.** 20 mm

Order Code:

MA-NET (for RS-485)

MA- NET TCP/IP (for TCP/IP)



# **Technical Specifications:**

Code	MA-NET
Description	Network Card, Fire Alarm Equipment UOXX.S36158
Standards	UL864 10th Edition, SII1220 and TR TC EAC 043-2017

# **Specification**

opecinication.	
Operating Voltage	24VDC
<b>Current Consumption</b>	Up to 101.7mA
Optional Interface	ModBUS
Programming Port	Mini USB
Output Ports	RS-485/232 and RS-485/TCP/IP

#### Net

Interface Type	RS485
Interface Signals	Data+, Data -, 0 V, GND.
	galvanic insulation
Data Transfer Rate	9,600 - 56,700bps distances up to 1000 м; optional repeater (line boosters), 1 km
	true peer-to-peer network

# **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

# Physical

Weight	0.2 kg
Ingress Protection	IP00

Recommended Loop	MA-1000 Cooper loop card
	MA-1000A Apollo loop card
Suitable for Use With	MTech Analog Addressable Fire System
	MA-Monitoring Graphical
	Management Software

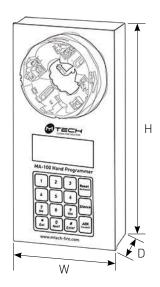
MA-100PRO is an installation accessory for technicians. It's a hand-held programming device is used for installation, commissioning, maintenance, and servicing MTechs MA advanced analog addressable devices and fire alarm systems.

# **System Functionality:**

- Features a built-in addressable base and two external terminals, to enable interface with other fire alarm system devices
- Sets the new address to newly connected devices, and reads addresses of existing connected devices
- Reads the analog value of photovoltaic and combined detectors
- Able to erases address of connected device
- Tests connected devices
- Up to three programmable heat settings
- Programs temperature thresholds and scenarios for detecting temperature surges of thermal and combined detectors

# **Features & Benefits:**

- Compact, robust, lightweight design
- Easy to use and
- Equipped with a user-friendly LCD menu display





# **Technical Specifications:**

Code	MA-100PRO
Description	Hand-held programmer for Addressable detectors
Standards	TR TC EAC 043-2017

#### **Specification**

Operating Voltage	9V dc
Batteries	3 units, type AA
Display	4x16 characters LCD display

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

# **Physical**

Construction	Metal box
Color	Red
Weight	0.35 kg

#### Compatibility

Suitable for Use With	MTech MA Analog Addressable Detectors
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# **Dimensions:**

**W.** 115 mm | **H.** 230 mm | **D.** 28 mm



Order Code:

MA-100PRO

# Conventional

# **SYSTEM**

MTech's family of Conventional products come together as a system in a wide range of options that are customized to the project and site of installation. The series includes three conventional panels, that are compatible with conventional input devices such as smoke detectors, manual pull stations, water-flow devices, tamper switches, and other normally-open contact devices. They are simple to install and operate, and provide a flexible, cost-effective solution for projects the require.

Components can also be included in Analog Addressable systems.



# **Conventional Products:**

Fire Alarm	Control	Panels:

MB-202/204/208	P.	46
Detectors:		
MB-220	P.	48
MB-230	P.	49
MB-240	P.	50
MB-300	P.	51
MB-DUCT	P.	52
MB-LI	P.	53
Call Points:		
MB-CPR / MB-CPY	P.	54
Sounders and VADs:		
MB-FL	P.	55
MB-HO	P.	56



MTech's MB 200 series of Conventional Fire Alarm Control Panels includes three products: MB 202, MB 204 and MB 208, with 2, 4 and 8 Class B zones respectively.

MB control panels are compatible with conventional input devices such as smoke detectors, manual

pull stations, water-flow devices, tamper switches, and other normally-open contact devices.

They are simple to install and operate, and provide a flexible, cost-effective solution for projects the require conventional systems.

# **System Functionality:**

- 2-wire connection per zone
- 2-wire connection for repeaters and ancillary boards
- Come with four Class B notification appliance circuits (NAC), programmable relays, dedicated alarm and trouble relays, multiple ports and NAC protocol capable of programming outputs
- Ability to silence audible devices straight from the panel, while strobes continue to flash
- Call-point can perform cross-zone overwrite

- Build-in device programmer
- Improved protection against false alarms (in case of ground fault or loud noise)
- Can integrate with Eaton devices to create sophisticated cross-zone functionality
- Panels comply with NFPA Standard 72, and listed by Underwriters Laboratories under the UL864 10th Edition
- Approved as Releasing Panels according UL 864 10th Edition and NFPA 2001 requirements

# **Features & Benefits:**

- Simple installation and integration
- Includes maintenance notifications
- Compatible with wide range of detection devices including Eaton products
- Cross-detection alarm in the zone
- Can be programmed on site or by using the MTech site installer software on PC

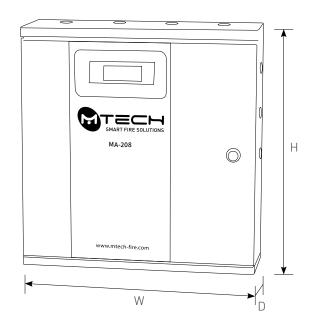
# **Technical Specifications:**

Code	MB-202 MB-	204 MB-208
Description	Conventional Fine Panel, UOJZ.S36	
Extinguisher	Water and Agen Support SYZV.S	
Standards	UL864 10th Edition TC EAC 043-2017	on, SII1220 and TR

Compatibility		
	MA-1050A Remote Annunciator	
Suitable for Use With	MTech Analog Addressable Fire System	
	MA-Monitoring Graphical Management Software	

# **Specification**

Panel Display	2-line x 16-character LCD, multilingual support		
Panel Keyboard	Full numeric keyboard, Reset, Silence, Forward, ESC, Enter		
Panel Indication	LED indication: AC, Alarm, Trouble, Silence, Supervisory		
Sound	Internal alarm sounder		r
Number of Loops	2 4 8		8
Devices Per Zones	20		
Output Ports	RS485		
•	LNET/RS-485 - for communication with remote annunciator MA-1050A		
Network	LNET/RS-485 - for communication with analog addressable system up to 32 conventional MB-202, 204 and 208 panels		
	LNET/RS-485 - for communication with analog addressable MA fire alarm panels		
Event History	Buffer for 250 events with date and time stamp		
Service	Built-in walk test		



# Power

Input Voltage	Input 120VAC /230VAC; 50/60Hz
Operated Voltage	24VDC 6.5A
Battery	Two 12V up to 20Ah

# Output

Panel NACs	4 O/P NACs (600mA)
Panel Relays	Alarm (1), Trouble (1), Programmable (3)
Initiating End-of-Line Resistor	Zone, 4.7K Ohms 1/2W 5%, NAC, 10K Ohms 1/2W 5%
BL 1 1	

# **Physical**

0 - 49°C
0 - 93% RH
Metal box
RAL 3000
7 kg
IP31
top (4), right (11), left (2)

# **Dimensions:**

Order Code:

MB-208RUS

**W.** 370 mm | **H.** 393 mm | **D.** 112 mm





MB-202	(2- Zone, English version)
MB-204	(4- Zone, English version)
MB-208	(8- Zone, English version)
MB-202RUS	(2- Zone, Russian version TR TC EAC)
MB-204RUS	(4- Zone, Russian version TR TC EAC)

(8- Zone, Russian version TR TC EAC)

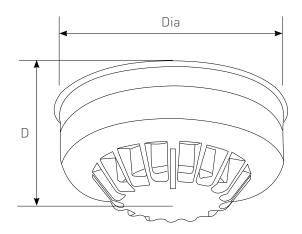
MB-220 is a conventional two-wire optical (photoelectric) smoke detector designed for MTech's MB series of fire system. It provides the fastest response to slow burning or smoldering fires that cause large amounts of visible smoke.

# **System Functionality:**

- · Operates on low current
- 360° view, red LED indicates alarm on

# **Features & Benefits:**

- Quick and simple to install, operate and service
- Removable detector chamber for cleaning
- Simple clean design
- Maintenance trouble notification
- Removable detector chamber
- Wiring via common mounting base
- Drift compensation
- Lock which opens only with special tool, to prevent unauthorized sensor removal





# **Dimensions:**

**Dia.** 101 mm | **D.** 33 mm | **D (Incl. Base).** 45 mm

Order Code:

MB-220

# **Technical Specifications:**

Code	MB-220
Description	Conventional Optical Smoke Detector, UROX.S36306
Standards	UL268 6th Edition, EN54-7, SII1220, TR TC EAC 043-2017

#### **Specification**

Specification	
Operating Voltage	15V dc to 30V dc
Voltage Waveform	Filtered DC, ± 1V max ripple at 120Hz
Standby Current (Average)	95μΑ
Surge Current (Max)	340µA
Alarm Current (Max)	Must be limited externally to 40mA
Start-Up Time	20 seconds
Sensitivity	2.55 ± 0.33% /ft
Sensitivity Checker	Use no climb model TruTest (UL Listed)
Reset Time (Max)	2 seconds
Mounting Position	Ceiling at walls in open areas
Mounting Options	Conventional MB-300 detector base
Area Coverage	100m² (subject to local standard)
Indication	360° visibility light pipe

# **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	PC/ABS
Color	White
Weight	0.120 kg

Suitable for Use With	MTech Conventional System

MB-230 is a fixed-heat conventional detector which detects both rapid increases in temperature, and temperatures of above +60° C or 92° C (depending on switch selection). It offers accurate and reliable fire detection in challenging environments, where there are high levels of dust, fume, steam, and smoke, and other conditions that may typically set off a false alarm.

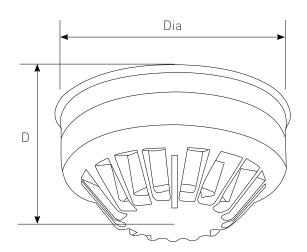


# **System Functionality:**

- · Operates on low current
- 360° view, red LED indicates alarm on

# **Features & Benefits:**

- Quick and simple to install, operate and service
- · Removable detector chamber for cleaning
- Simple clean design
- Maintenance trouble notification
- Removable detector chamber
- Wiring via common mounting base
- Drift compensation
- Lock which opens only with special tool, to prevent unauthorized sensor removal





# **Dimensions:**

**Dia.** 101 mm | **D.** 33 mm | **D (Incl. Base).** 45 mm

Order Code:

MB-230

# **Technical Specifications:**

Code	MB-230
Description	Conventional Heat Detector, UQGS.S36306
Standards	UL 268 6th Edition, EN 54-7, SII 1220, TR TC EAC 043-2017

# **Specification**

Specification	
Operating Voltage	15V dc to 30V dc
Voltage Waveform	Filtered DC, ± 1V max ripple at 120Hz
Standby Current (Average)	70µA
Surge Current (Max)	340µA
Alarm Current (Max)	Must be limited externally to 40mA
Start-Up Time	20 seconds
Heat Element Rating	60°C - 77°C - 92°C
Reset Time (Max)	2 seconds
Mounting Position	Ceiling at walls in open areas
Mounting Options	Conventional MB-300 detector base
Area Coverage	50m² (subject to local standard)
Indication	360° visibility light pipe

# **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

# **Physical**

Construction	PC/ABS
Color	White
Weight	0.120 kg

Suitable for Use With	MTech Conventional System

MB-240 is an advanced multisensor smoke and heat conventional detector designed for the MB series of conventional fire alarm systems. Like the MB 220 smoke detector, it quickly detects fast, clean burning and smoldering fires while its heat sensors provide an additional layer of protection as the include a alarm threshold which improves the rejection of many factors that cause common false alarms with an additional alarm raised when temperature reaches 60°C or more.

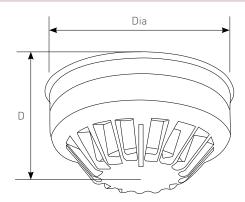


# **System Functionality:**

- · Operates on low current
- 360° view, red LED indicates alarm on
- Detects a either a rapid increase in temperature, or when temperature reaches above 60° C or 92° C (depending on switch setting)

# **Features & Benefits:**

- Quick and simple to install, operate and service
- Removable detector chamber for cleaning
- · Simple clean design
- Maintenance trouble notification
- · Removable detector chamber
- Wiring via common mounting base
- Drift compensation
- Lock which opens only with special tool, to prevent unauthorized sensor removal





# **Dimensions:**

**Dia.** 101 mm | **D.** 33 mm | **D (Incl. Base).** 45 mm

#### Order Code:

MB-240

# **Technical Specifications:**

Code	MB-240
Description	Conventional Multisensor Smoke and Heat Detector, UQGS.S36306
Standards	UL268 6th edition, EN54-7, SII1220, TR TC EAC 043-2017

#### **Specification**

•	
Operating Voltage	15V dc to 30V dc
Voltage Waveform	Filtered DC, ± 1V max ripple at 120Hz
Standby Current (Average)	95μΑ
Surge Current (Max)	340µA
Alarm Current (Max)	Must be limited externally to 40mA
Start-Up Time	20 seconds
Heat Element Rating	60°C - 77°C - 92°C
Sensitivity	2.55 ± 0.33% /ft
Sensitivity Checker	Use no climb model TruTest (UL Listed)
Reset Time (Max)	2 seconds
<b>Mounting Position</b>	Ceiling at walls in open areas
Mounting Options	Conventional MB-300 detector base
Area Coverage	100m² (subject to local standard)
Indication	360° visibility light pipe

# **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

#### **Physical**

Construction	PC/ABS
Color	White
Weight	0.120 kg

MB-300 is a standard detector base designed for conventional detectors in the MB series.

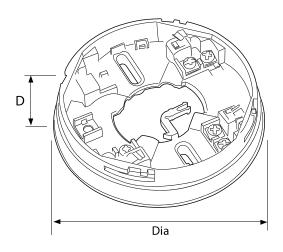
# **System Functionality:**

- Provides fault warnings when detectors are removed
- Maintains full zone wiring integrity and fault monitoring to ensure circuit remains unbroken even in the absence of a detector



# **Features & Benefits:**

- Quick and simple to install, includes a retaining clip for correct fitting
- Separate zone-in and zone-out terminals, each terminal can accept up to 2mm x 2.5mm cables
- Stand-off feature in base to allow proper mounting on uneven surfaces
- Optional locking devices (supplied with base) prevent unauthorized detector removal
- Suitable for side entry surface cables



# **Technical Specifications:**

Code	MB-300
Description	Conventional Detector Base, UQGS.S36306, UROX.S36306
Standards	UL268 6th edition, EN54-7, SII1220, TR TC EAC 043-2017

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

# **Physical**

Construction	PC/ABS
Color	White
Weight	0.076 kg

# Compatibility

S	uitable for Use With	MTech Conventional Detectors

#### **Dimensions:**

**Dia.** 101 mm | **D.** 22 mm





Order Code:

MB-300

MB-DUCT is a chamber used to house base and detectors installed ventilation ducts. The unit is places on the external skin of the duct, with sample and exhaust probes passing through the duct in areas of low turbulence

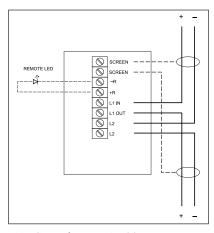
# **System Functionality:**

The presence of smoke in a ventilation duct is detected by sampling the airflow through the duct via two sampling tubes. The unit requires an analog optical sensor or conventional optical detector and corresponding base and is supplied with full fixing instructions.

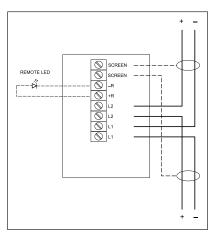


# **Features & Benefits:**

- One unit for addressable and conventional smoke detectors
- Easy testing without removing the lid
- Requires regular service to avoid accumulation of dirt



 $\label{thm:conventional} Wiring\ diagram\ for\ conventional\ detectors$ 



Wiring diagram for analog addressable detectors

# **Technical Specifications:**

Code	MB-DUCT	
Description	Duct Mounting Probe Unit	
Standards	EN54-23, TR TC EAC 043-2017	

#### **Specification**

Duct Width Range	300mm to 1500mm			
Duct Air Speed Range	1m/s to 20m/s Detector ± 0.8° Prism ± 5.0°			
Optical Wavelength	880nm			

#### **Environmental**

Environmental Operating Temperature	(-20) - 49°C
Humidity (Non-Condensing)	0 - 93% RH

# **Physical**

Construction	PC/ABS
--------------	--------

# Compatibility

Suitable for Use With	MTech Analog Addressable Detectors	
	MTech Conventional Detectors	
	Apollo Conventional Detectors	
	Apollo Analog Addressable Detectors	



Order Code:

MB-DUCT

MB-LI is a conventional remote indicator designed to provide discreet remote indication in cases where smoke, heat or photo-thermal fire detector are inaccessible like in cases of an acoustic ceiling for example.

The device is part of the MB conventional series.

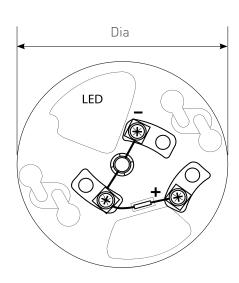


# **System Functionality:**

· Loop powered

# **Features & Benefits:**

- Quick and simple to install
- Discreet device that can easily be incorporated into building décor.



# **Dimensions:**

**Dia.** 80 mm | **D.** 20 mm

Order Code:		
MB-LI		

# **Technical Specifications:**

Code	MB-LI
Description	Conventional MiniDisc Remote Indicator
Standards	EN54-7, TR TC EAC 043-2017

# **Specification**

Voltage	5-36V dc	
Max Current	25mA	

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

# **Physical**

Construction	PC/ABS
Color	White
Weight	0.076 kg

Compacibility	
Suitable for Use With	MTech Conventional Detectors
	MTech Analog Addressable Detectors
	Eaton Conventional Detectors
	Eaton Analog Addressable Detectors
	Apollo Conventional Detectors
	Apollo Analog Addressable Detectors

MB-CPR (red) and MB-CPY (yellow) are conventional call points designed to operate with the MB range of conventional fire alarm and notification panels. They are used in the event of a fire or emergency by breaking a fragile glass or plastic element that trigger the alarm when broken, and come with a dual-function key for testing call point operation, gaining access for maintenance.

The call points include plug-and-play terminal connections for fast wiring.

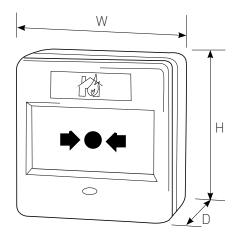
Call points are for indoors use; outdoor variants are also available.



- High-visibility status LED
- Separate zone-in and zone-out terminals
- Lockable base
- Resettable
- Single tool for test and access

# **Features & Benefits:**

- Heavy duty terminals
- Fast-fit clip on front cover
- · Flush or surface mounted





# **Technical Specifications:**

Code	MB-CPR/Y
Description	Conventional Call Point
Standards	EN54-11, SII1220, TR TC EAC 043-2017

#### **Specification**

<u> </u>	
Operating Voltage	18-30V dc
Connection	4-way terminal block
Operating Method	Glass element with safety film
Test Facility	Unique key

# **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

# **Physical**

Construction	PC/ABS
Color	Red/Yellow
Weight	0.2 kg

# Compatibility

Suitable for Use With	MTech Conventional Fire Alarm Systems

# **Dimensions:**

W. 87 mm | H. 87 mm | D. 57 mm

Order Code:

MB-CPR (Red)

MB-CPY (Yellow)

MB-FL is a conventional audible and visual sounder beacon for use in public areas which require a visual solution for the hearing impaired, or areas with which are extremely noisy; its high light output maximizes its ability to attract attention. The unit is designed to be installed from a single point, is less obtrusive than using a combination of two separate devices, and offers a time and costs effective installation.

Suitable for the MTech's MB family of conventional fire alarm systems



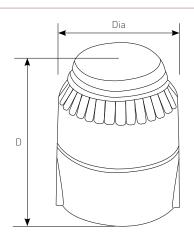
# **System Functionality:**

Combining an audible alarm and a visual alarm, the MB-FL is less obtrusive than having two separate devices.

The beacon features a high light output, maximizing its potential to attract attention.

# **Features & Benefits:**

- High output sounder beacon
- Automatic sounder synchronization
- Up to 103dB(A) with built in Xenon flash
- Improved tone clarity
- Suitable for a variety of applications



# **Dimensions:**

**Dia.** 93 mm | **D.** 92 mm | **D (WP).** 121 mm

# Order Code:

MB-FL

EAC

MB-FLWP (Waterproof version)

# **Technical Specifications:**

Code	MB-FL
Description	Conventional Sounder Beacon
Standards	EN54-23, SII1220, TR TC EAC 043-2017

# **Specification**

18VDC to 28VDC
68mA (typical tone 3)
101dB(A) at 1 meter (typical tone 3)
Preset to tone 3, 32 tones available
0.7j
1Hz
10dB
Polarity

#### **Environmental**

Environmental Operating Temperature	0 - 49°C
Humidity (Non-Condensing)	0 - 93% RH

# **Physical**

Construction	ABS/ PC lens
Color	Red
Lens color	Red
Weight	0.33 kg

Suitable for Use With	MTech Fire Alarm Conventional System
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**MB-HO** is a conventional electronic sounder with a high-volume output, and low-current requirement. It is an ideal solution for use in noisy environments where power is limited.

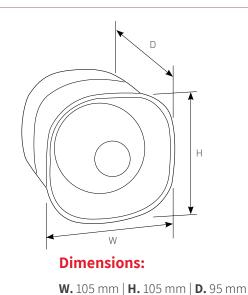
The sounder is compatible with MTech's MB family of conventional fire alarm systems.



- High output sounder
- Tone selection, adjustable volume
- · Operates on low current
- Weatherproof version available
- Separate alarm line-in and alarm line-out terminals are provided

# **Features & Benefits:**

- Quick and simple to install
- Ideal for areas with high ambient noise
- Connects to main sounder body
- Cable entry is from rear, top or bottom
- Sounder operates from nominal 24VDC supply and can be connected to any suitably-rated conventional sounder circuit.



Order Code:

МВ-НО

# **Technical Specifications:**

Code	мв-но
Description	Conventional Electronic Sounder
Standards	EN54-3, TR TC EAC 043-2017

# **Specification**

Operating Voltage	18VDC to 28VDC
Current	68mA (typical tone 3)
Sound Output	120dB(A) at 1 meter (typical tone 5)
	114dB(A) at 1 meter (typical tone 3)

#### **Environmental**

Environmental Operating Temperature	0 - 49°C	
Humidity (Non-Condensing)	0 - 93% RH	

# **Physical**

Construction	ABS
Color	Red
Weight	0.28 kg

# Compatibility

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FAL



