MA-1 | Analog Addressable Fire Alarm Control Panel

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-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 MA-1.
- Complies with NFPA Standard 72 requirements, and listed by Underwriters Laboratories under the UL864 10th Edition.

Features & Benefits:

- 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

Technical Specifications:

Code	MA-1
Description	Analog Addressable Fire Alarm Control Panel, UOJZ.S36158
Standards for Panels	UL864 10th Edition, SII1220 and TR TC EAC 043-2017
	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
Network	MA-NET network card for RS-485 network for communication up to 64 panels in network with global correlation matrix
	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

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

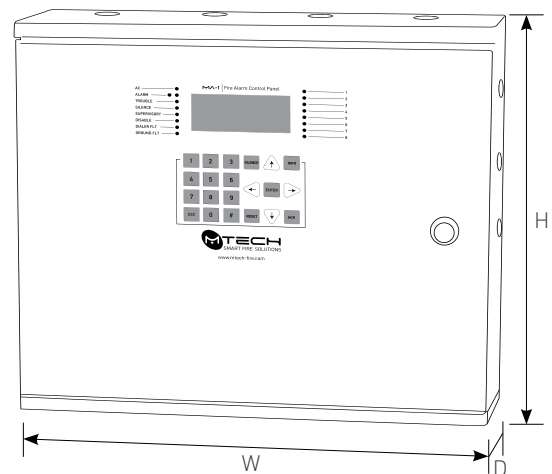|	
Programmable	2 addressable inputs onboard
DRC	Dry contact control (for door tamper switches)

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
Physical Construction	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

Dimensions:

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

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