

MA-1000 | Analog Addressable Fire Alarm Control Panel

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 address-number 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.

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)
- 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)



Technical Specifications:

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

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 buzzer
Number of Loops	2 SLC loops class A with option of 4-loop class B operation
Loop Powered Outputs	300 mA power for loop
Addresses Per Loop	Up to 200 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 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
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 up to 20 Ah

Output

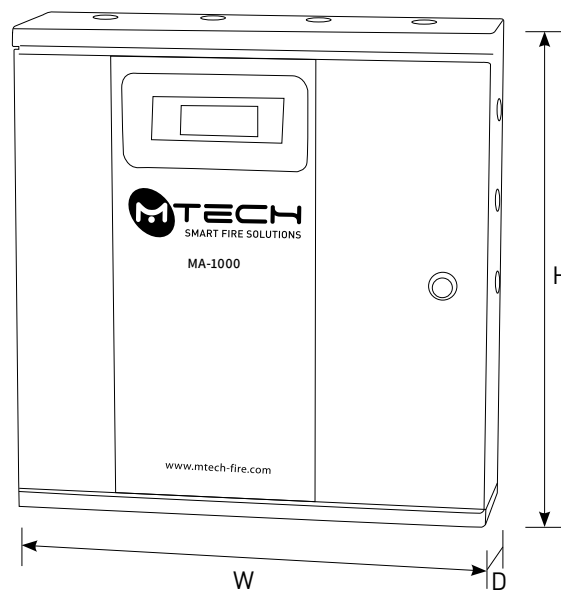
Panel Nacs	4 O/P NACs (600mA)
Panel Relays	5 relays: alarm (1), trouble (1), programmable (3)

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



Order Code:

MA-1000 English version

MA-1000RUS Russian version