

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

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|-------------------------|---|
| 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

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

Output

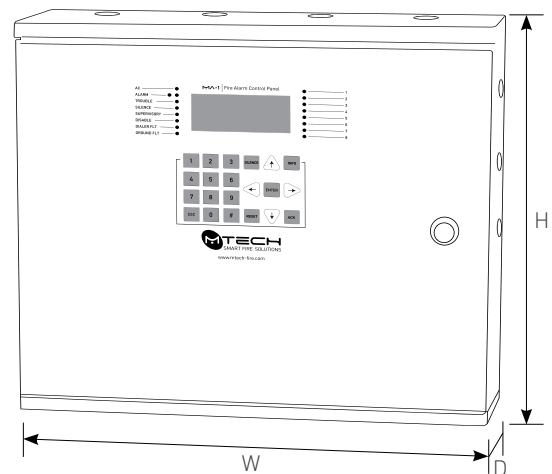
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|--------------------------------|--|
| Panel Sounder Circuit | 1 O/P NACs (600mA) |
| Panel Auxiliary Outputs | AUX 24VDC 2A, AUX resettable 24VDC 300mA |
| Panel Relays | alarm (1), trouble (1), programmable (3) |

Physical

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|--|------------------------------|
| 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

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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 |
|------------------------------|--|



Dimensions:

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



Order Code:

| | |
|----------------|-----------------|
| MA-1 | English version |
| MA-1RUS | Russian version |