



# MAD-421

# MAD-421-I

# MAD-422

# MAD-422-I

Addressable modules of 1 & 2 technical inputs and 1 & 2 relay outputs

## Description

The range of MAD-400 modules has been developed to offer a wide and complete range of input and output ports to be used with Detnov's addressable fire control panels.

The MAD-400 modules allow performances and manoeuvres for the proper functioning of the fire detection system, monitoring and/or acting according to the needs of the installation.

The MAD-400 modules have been designed to facilitate their installation process and they may be installed using screws or fitted into a DIN rail. Each module is equipped with removable terminal blocks and a LED status indicator. The addressing of the modules is carried out through the PGD-200 programmer or auto addressing for isolator version.

The MAD-421 module provides 1 technical input and 1 free voltage relay output; the MAD-422 provides 2 technical inputs and 2 free voltage relay outputs. Inputs can be used to monitor any event that want to have controlled and outputs can be used as a peripheral actuator to the fire detection system. In all cases the modules act independently, being possible to assign specific manoeuvres to each of the inputs and outputs.

The MAD-421 and MAD-422 modules take the power supply directly from the loop and assigned a number of loop addresses according to the number of inputs available in the module.

The MAD-421-I and MAD-422-I modules are equipped with integrated isolator.

All the range of MAD-400 modules can be installed inside the BOX-ONE and BOX-SIX boxes.

## Features

- Simple installation on the wall or fitted into a DIN rail
- Non-polarity supported (only MAD-401 and MAD-402)
- Addressing through a programmer
- Loop-powered device
- Connections through removable terminal blocks and simple fitting of the cable
- EN 54-18 and EN 54-17 approved

## Applications

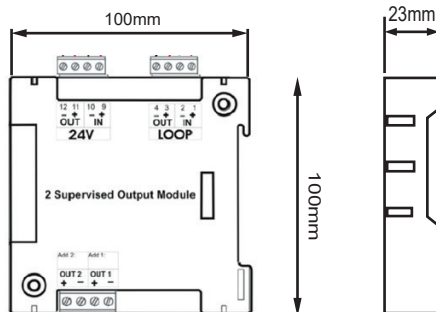
The MAD-421 and MAD-422 modules are ideal for the supervision of any event that is required to be supervised by NC or NA contact and requires chaining an action of any device.

## Technical features

Module	
Loop features:	<p>Operating voltage: From 22 to 38VDC</p> <p>Quiescent current consumption: &lt; 300 <math>\mu</math>A</p> <p>Alarm current consumption: &lt; 3 mA</p>
Technical input through a NC or NO contact (configurable)	
Relay contact:	1 A @ 30VDC
Connections	
2 x 1,5 mm <sup>2</sup> twisted and shielded cable (1)	
Environment	
Operating temperature:	From -10°C to +70°C
Relative humidity:	95% without condensation
IP Index:	IP40
Physical features	
Size:	100 mm x 100 mm x 23 mm
Material:	ABS
Approvals	
EN 54-18 y EN 54-17 (only MAD-421-I and MAD-422-I)	
MAD-421, MAD-422 Certificate number:	0370-CPR-1181
MAD-421-I, MAD-422-I Certificate number:	0370-CPR-1863

(1) Use the "System Calculation" tool to check the maximum number of devices and loop length, in accordance with the cross-section of the cable used.

## Dimensions



\* Dimensions of MAD-432 module. The same size for all the range MAD-400.