



# MAD-421

# MAD-421-I

# MAD-422

# MAD-422-I

## Addressable Module Technical Input & Free Relay Output

### 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 CAD-150 family of analogue fire control panels. These modules let you manage a wide variety of situations, by monitoring and acting according to the installation's requirements. All the modules of this range are available with and without Isolator.

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 (Isolator version support auto addressing).

The MAD-421 module provides 1 technical input and 1 free contact relay output, and MAD-422 provides 2 technical inputs and 2 free contact relays outputs. The inputs can be used to monitorize any external event to the fire system, and the outputs can be used to switch some peripheral circuits on and off. In any case, all inputs and outputs operate individually, providing a broad range of configuration options. Both devices are powered directly from the loop.

Technical inputs can be configured through a micro-switch to operate as NC or NO, and there is the option to select between supervised and non-supervised input.

### Features

- Simple installation on the wall or fitted into a DIN rail
- Non-polarity supported
- Addressing through a programmer
- Stable communication protocol with immunity to noise
- Loop-powered device
- Connections through removable terminal block, and simple fitting of the cable
- EN54-18 and EN54-17 approved
- MAD-421-I and MAD-422-I with Isolator

## Applications

The MAD-421 and MAD-422 modules are usually installed to supervise NO or NC contacts or to integrate with other systems that can be managed through a free contact relay.

## Technical features

<b>Module</b>	
Loop features:	<ul style="list-style-type: none"> <li>Operating voltage: From 22 to 38VDC</li> <li>Quiescent current consumption: &lt; 300 <math>\mu</math>A</li> <li>Alarm current consumption: &lt; 3 mA</li> </ul>
	Technical input through a NO or NC contact (configurable)
	Relay contacts: 1A at 30VDC
<b>Connections</b>	
	2 x 1.5 mm <sup>2</sup> twisted and shielded cable
<b>Environment</b>	
	Operating temperature: From -10°C to +70°C
	Relative humidity: 95% without condensation
	IP index: IP40
<b>Physical features:</b>	
	Size: 100 mm x 82 mm x 23 mm
	Size with removable terminal: 100 mm x 100 mm x 23 mm
	Material: ABS
<b>Approvals</b>	
	MAD-421 and MAD-422 Certification EN54-18 MAD-421-I and MAD-422-I Certification EN54-18 and EN54-17
	MAD-421, MAD-422 Certificate number: 0370-CPR-1181
	MAD-421-I, MAD-422-I Certificate number: 0370-CPR-1863

## Dimensions

