



## MAD-411

## MAD-411-I

## MAD-412

## MAD-412-I

### Addressable Module 1 & 2 Potential 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-411 and MAD-412 modules provide 1 and 2 free contact relay outputs to the fire detection system. These contacts usually switch some peripheral circuits on and off. In the case of having two contacts, they can operate independently and specific programs can be assigned independently to them. The MAD-411 and MAD-412 modules take the power supply directly from the loop.

## 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 blocks, and simple fitting of the cable
- EN54-18 and EN54-17 approved
- MAD-411-I and MAD-412-I with Isolator

## Applications

The MAD-411 and MAD-412 modules are ideal for switching any device on and off, and they are also ideal for integration with other systems that can be managed through a relay contact, such as ventilation stoppage, elevator stoppage or discharge system activation.

## Technical features

<b>Module</b>		
Loop features:	Operating voltage:	From 22 to 38VDC
	Quiescent current consumption:	< 300 $\mu$ A
	Alarm current consumption:	< 3 mA
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>Approval</b>		
	MAD-411 and MAD-412 Certification EN54-18	
	MAD-411-I and MAD-412-I Certification EN54-18 and EN54-17	
	MAD-411, MAD-412 Certificate number:	0370-CPR-1181
	MAD-411-I, MAD-412-I Certificate number:	0370-CPR-1863

## Dimensions

