

# ANALOGUE ADDRESSABLE INPUT/OUTPUT MODULES

## FEATURES

- MI-DCMOE Single Output Module
- MI-DMMIE Single Input Module
- MI-DMM2IE Dual Input Module
- MI-D2ICMOE Dual Input – Single Output Module
- Common mechanical platform for modules' enclosure
- Integrated DIN rail brackets
- Built-in short circuit isolators
- CLIP and Advanced Protocol
- Addressability through rotary switches
- Improved Light Guides visibility on two sides
- Lasered engraved label data
- Intertek Approved - EN



## DESCRIPTION

The newly designed platform of Morley family of Input/ Output modules, completes the Morley line of wired spot detectors with unaltered family feeling and undisputed continuity.

The new modules look and feel combine maximum reliability with top-end functionality, all enriched by a cutting-edge modern design. Single and multi-way models are available within the renewed mechanical package, reducing both the cost of installation and the mounting space required.

Their unique mechanical design allows each module to be mounted in

either a common wall box, on a DIN rail or its dedicated enclosure. The DIN rail mounting option is possible thanks to smart DIN brackets directly built-in the enclosure. Irrespective of the mounting methods chosen, the address switch is always visible and accessible for selection.

Each module has built-in short circuit protection for the communications loop; however, to increase application flexibility, the isolators can be selected/deselected on an individual module basis.

To help technicians in the maintenance and fault-finding process, light pipes

have been enlarged to increase visibility even in the most challenging space constrained application. Both the status LED and the rotary switch selection can be viewed on the two sides without having to remove the cover of the surface mounting box. The multi-colour status LED, provide diagnostic information regarding the status of each individual input/output. For ease of installation, testing and maintenance, modules have been equipped with quick connectors.

The renovated aesthetics offers data finely engraved on the enclosure's surface by laser for lifetime durability and resistance to degradation.

## ARCHITECT/ENGINEER SPECIFICATIONS

### MI-DCMOE Single Output Module

The module optionally supervises the wiring to the load devices and, upon command from the control panel, switches an external power supply to operate these devices. It also has built-in short circuit isolation capability. In normal supervised mode, the device switches out the load supervision and switches in the external power supply through a double pole relay. The external power supply is monitored and raises an unlatched fault condition if the voltage falls below the fixed threshold. In the unsupervised mode, the device provides neither load nor power supply supervision and can be used to switch a single form C set of changeover contacts.

ELECTRICAL SPECIFICATIONS	
Operating Voltage Range	15 to 32VDC
Maximum Standby Current	160µA at 24VDC no communications
Relay Specifications	Normal and unsupervised form C ratings 2A at 30VDC, resistive load
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature Range	-20°C to +60°C
Humidity	5 to 95% Relative Humidity (non- condensing)
IP Rating	IP40 (IP44 in M200E-SMB)
MECHANICAL INFORMATION	
Height	22mm
Length	82mm
Width	93mm including terminal block
Weight	118g
Maximum Wire Gauge for Terminals	2.5mm <sup>2</sup>

### MI-DMMIE Single Input Module, MI-DMM2IE Dual Input Module and MI-D2ICMOE Dual Input – Single Output Module

The MI-DMMIE and MI-DMM2IE provide supervision of one or two input circuits respectively from external devices; the M-D2ICMOE also provides an unmonitored single pole volt-free changeover contact for external devices. All modules feature a built-in short circuit isolator. Input channels are capable of both latched and analogue supervision: there are three separate latched states, normal, open circuit and combined alarm/short. The analogue supervision continuously monitors the supervised circuit, returning a signal proportional to the circuit resistance.

ELECTRICAL SPECIFICATIONS	
Operating Voltage Range	15 to 32VDC
M210EA Maximum Standby Current	140µA at 24VDC, no communications
M220EA Maximum Standby Current	140µA at 24VDC, no communications
M221EA Maximum Standby Current	140µA at 24VDC, no
communications M221EA Output Rating	2A at 30VDC, resistive load
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature Range	-20°C to +60°C
Humidity	5 to 95% Relative Humidity (non- condensing)
IP Rating	IP40 (IP44 in M200E-SMB)
MECHANICAL INFORMATION	
Height	22mm
Length	82mm
Width	93mm including terminal block
Weight	118g
Other Devices in Range	MI-DMM2IE and MI-D2ICMOE
Maximum Wire Gauge for Terminals	2.5mm <sup>2</sup>

## ARCHITECT/ENGINEER SPECIFICATIONS



## LIST OF ACCESSORIES

M200E-SMB	Surface Mounting Box
M200E-SMB-KO	Surface Mount Box with 20mm knockouts

SR NO	PRODUCT MODEL NO	PRODUCT DESCRIPTION	ORDERING PART CODE
1.	MI-DCMOE	Addressable Single Output Module	MI/DCMOE
2.	MI-DMMIE	Addressable Single Input Module	MI/DMMIE
3.	MI-D2ICMOE	Addressable Dual Input and Single Output Module	MI/D2ICMOE
4.	MI-DMM2IE	Addressable Dual Input Module	MI/DMM2IE

### For more information,

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