



ESRM-12...230

ESRM-10

Single-Stage & Adjustable Relay

DIN rail mounted relay modules compatible with building management systems, providing a switched output when an input signal is applied.

Features

- Volt Free Contacts
- **ESRM-10 only**
- Off-On-Auto link to aid commissioning.
- LED light on when relay energised

ESRM Series

Input Signals	Output Contacts Amps	Part No.	Price Each
8VDC	10	ESRM-12DC	£5.00
17VDC	12	ESRM-24DC	£6.00
17VAC	12	ESRM-24AC	£7.00
172VAC	12	WSRM-230AC	£7.00
0-10VDC Adj.	10(3)	ESRM-10	£24.00

Four-Stage Relay Override Module

DIN rail mounted relay modules compatible with building management systems, providing a switched output when an input signal is applied.

Features

- Volt Free Contacts
- **ESRM-10 only**
- Off-On-Auto link to aid commissioning.
- LED light on when relay energised

EROV4 Series

Input Signals	Output Contacts Amps	Part No.	Price Each
24VAC/VDC	4 x 10(3)	EROV4	£44.00



EROV4

Two-Stage Relay Modules

These products accept a 0-10VDC input and produce a 2-stage relay output which can be used for external plant switching. HIGH/LOW or RAISE/LOWER functions can be selected for multi staged heating & Cooling.

Features

- DIN rail mounted

E2RM Series

Input Signals	Output Contacts Amps	Part No.	Price Each
24VAC/VDC	2 x 10(3)	E2RM	£17.00



E2RM

Three-Stage Relay Modules

These products accept a 0-10VDC input and produce a 3-stage relay output which can be used for external plant switching. 4 modes of operation can be selected: 3 stage switching, Heat - Cool + Fan sequence or 2 Stage Binary. For multi-stage heating & cooling, 2 of these units or other relay modules can be used with the E13... temperature controllers or similar.

Features

- DIN rail mounted

E3RMT Series

Input Signals	Output Contacts Amps	Part No.	Price Each
24VAC/VDC	3 x 10(3)	E3RMT	£33.00



E3RMT

Four-Stage Relay Modules

These products accept a 0-10VDC input and produce a 4-stage relay output which can be used for external plant switching. For multi-stage heating & cooling, two of these units or other relay modules can be used with the E13... temperature controllers or similar

Features

- DIN rail mounted

E4RM Series

Input Signals	Output Contacts Amps	Part No.	Price Each
24VAC/VDC	4 x 10(3)	E4RM	£54.00



E4RM

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E4DIM

4 & 6-Stage Digital Input Multiplexer

These units allow up to 4 or 6 volt free inputs to be converted into a single 0-10VDC analogue output channel which can in turn be decoded by a B.M.S controller into digital status bits.

Features

- DIN rail mounted

E4DIM/E6DIM Series

Input Signals	Output Contacts Amps	Part No.	Price Each
24VAC/VDC	0-9 or 0. 4-9. 4	E4DIM	£32.00
24VAC/VDC	0-10	E6DIM	£70.00

Alarm Integrator

Provides a common alarm output for up to 9 separate alarm input signals. Parallel connection is possible for additional alarm inputs.

Features

- DIN rail mounted

EAL... Series

Input Signals	Output Contacts Amps	Part No.	Price Each
24VAC	10	EAL-24	£20.00
110VAC	10	EAL-110	£25.00
230VAC	10	EAL-230	£23.00



EAL...



Digital Input Multiplexers

These modules are intended for use with BMS controllers to expand their input capacity by multiplexing four or six digital signals or 4 x 24VAC/DC inputs into a single analogue controller unit. Each combination of input states corresponds to an analogue value from the IO-DIM4 and IO-DIM6 which can be decoded into four or six digital status bits.

Features

- Fault finding LED indication *
 - Input status indication *
 - Input status simulation *
 - Expands controller input capacity
 - Self calibrating output *
- * Not available on DIM3 model

IO-DIM Series

Description	Part No.	Price Each
3 x Voltage-free inputs, resistive outputs	IO-DIM3	£22.00
4 x VFC or 24VAC/DC inputs, resistive outputs	IO-DIM4	£24.75
6 x VFC or 24VAC/DC inputs, resistive outputs	IO-DIM6	£36.75

Relay Override Modules

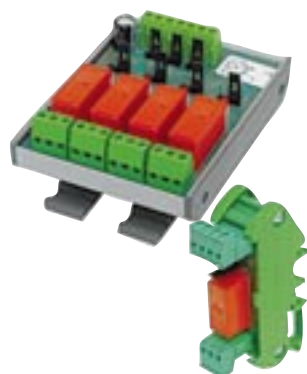
Intended for applications which require independent manual override of digital output channels from a BMS controller or as a fail-safe in the event of controller failure. The IO-ORM series is particularly useful for commissioning and temporary control of plant, as the output(s) can be switched without a controller connected. Designed especially for BMS controllers with outputs which have limited current draw capability, the modules only require 1mA at 10Vdc to switch. The modules also provide an alternative to the IO-RM1 with the benefit of Hand/Off/Auto and LED status features.

Features

- 10Vdc inputs
- 10A relay output
- Single or 4-channel versions available
- Less than 1mA current draw on input
- Hand/off/auto link selectable
- LED status indication
- 24Vac/dc powered
- DIN-rail mounting

IO-ORM Series

Description	Part No.	Price Each
1 Channel	IO-ORM1	£18.50
4 Channel	IO-ORM4	£47.75



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Single-Stage Relay Modules

A range of relays for use with BMS controllers for switching plant and isolation of input signals.

IO-RM1 Series

Input Signals	Output Contacts Amps	Part No.	Price Each
12VDC	8	IO-RM1-12DC	£4.50
24VDC	8	IO-RM1-24DC	£5.00
24VAC	12	IO-RM1-24AC	£5.50
240VAC	12	IO-RM1-240AC	£6.50

Two-Stage Relay Module

This module is intended for use with BMS controllers to convert an analogue control output to a raise/lower, high/low or binary relay output pair.

Applications include the control of raise/lower valve and damper actuators, and pump changeover. LEDs indicate correct operation and Hand/Off/Auto jumpers ease commissioning.

Low current draw from 0-10Vdc controller output means that the IO-RM2 can work successfully with most BEMS controllers.

Features

- Fault finding LED indication
- Relay status LED indication
- Link selectable raise/lower, hi/low or binary modes
- On/Off/Auto links for ease of commissioning

IO-RM2

Type	Part No.	Price Each
2-stage Relay Module	IO-RM2	£14.75

Three-Stage Relay Module

The IO-RM3 is designed for use with BMS controllers to convert an analogue control output to a binary, heat/cool, staged or sequenced relay modes. LEDs indicate correct operation and Hand/Off/Auto jumpers ease commissioning. Low current draw from 0-10Vdc controller output means that the IO-RM3 can work successfully with most BEMS controllers.

Features

- Fault finding LED indication
- Relay status LED indication
- Link selectable binary, heat/cool, staged or sequenced modes
- On/Off/Auto links for ease of commissioning

IO-RM3 Series

Description	Part No.	Price Each
3-stage Relay Module	IO-RM3	£27.50

Four-Stage Relay Module

The IO-RM4 enables a single 0-10Vdc analogue output from a BMS controller to switch four digital outputs independently, in one of three different modes, and requires <1mA input.

Features

- Fault finding LED indication
- Relay status LED indication
- On/Off/Auto links for ease of commissioning
- Link selectable binary, staged or sequenced modes

IO-RM4 Series

Description	Part No.	Price Each
4-stage Relay Module	IO-RM4	£47.75




Analogue Outputs & Signal Converters

Input/Output Modules

Description	Part No.	Price Each
4 x Volt free digital inputs providing 0-10 volt output (24v AC or DC supply)	IO/DIM4	£25.00
4 x Opto isolated inputs 50V max providing 0-10 volt output (24v AC/DC supply)	IO/DIM4/OI	£40.00
6 or 8 Volt free digital inputs providing 0-10 volt output (24v AC or DC supply)	IO/DIM6-8	£45.00
Resistance input converting to 0-10v DC signal output (24v AC/DC Supply)	IO/RIM	£28.00
Signal Converter 0-10V or 4-20mA to 0-10V or 4-20mA	IO/SCM	£42.00
Signal Converter 0-10V or 4-20mA to 0-10V or 4-20mA with Galvanic isolation	IO/SCM/I	£52.00
0-10v or 4-20mA input Rescaling Module to 0-10V or 4-20mA output (24v AC/DC Supply)	IO/RSM	£52.00
0-10v or 4-20mA input Rescaling Module to 0-10V or 4-20mA output Galvanic Isolation	IO/RSM/I	£62.00
1 or 2 x 0-10v inputs to 2 x 0-10v outputs in sequence (24v AC/DC Supply)	IO/AX4.2	£47.00
Up to 4 x 0-10v inputs, outputs Highest, Lowest, Average of Difference (24v AC/DC Supply)	IO/AX4.3	£47.00

Analogue or Digital Inputs to Relay switching & Triac Outputs

Input/Output Modules

Description	Part No.	Price Each
0-10 volt signal providing single relay control (24v AC or DC Supply)	IO/1RM	£15.50
0-10 volt signal with adjustable switching relay and slave 0-10 volt (24v AC or DC Supply)	IO/ARM	£21.00
0-10 volt signal providing 2 stage control or Raise/Lower. (24v AC/DC Supply)	IO/2RM/LC	£17.00
0-10 volt signal input providing 3 stage control or Heat/Cool control. (24v AC/DC Supply)	IO/RM3	£25.00
3 x 10 Volt DC inputs switching 3 x Volt free changeover relays. (24v AC Supply)	IO/R3M/10V	£28.00
4 x 10 Volt DC inputs switching 4 x Volt free changeover relays. (24v AC Supply)	IO/R4M/10V	£33.00
3 x 24 Volt AC inputs switching 3 x Volt free changeover relays. (24v AC Supply)	IO/R3M/24V	£28.00
4 x 24 Volt AC inputs switching 4 x Volt free changeover relays. (24v AC Supply)	IO/R4M/24V	£33.00