

Description

The MOD 3 RM Module is intended for use with Direct Digital Controllers to convert an Analogue Output signal to a Fan/Cool/Heat or Stepped Output.

The MOD 3 RM Module is constructed on a Epoxy Glass Laminate and housed in an industry standard 80mm DIN Rail Mounting. Generous 2.5mm² terminals are provided for the field interconnections.

The MOD 3 RM Module is CE rated and is RoHS compliant.



Applications

Applications include the switching via Relay contacts of any Plant up to a 10Amp resistive load.

Switching of electric heater banks, fan/cool/heat sequences, boilers and fan coil units.

To provide Local Manual Control of the Plant in case of controller failure.

Local Manual Control of the Plant will also enable pre-commissioning and testing.

To provide a Local LED indication of Output Status.

To provide isolation of the controller from the Harsh Plant Environment, protecting the Controller.

The inputs require only 1mA @ 0 to 10V DC to switch which allows controllers with limited output capability to operate correctly.

Features

Expands controllers output capacity.

Provides 3 SPDT Relay Output channels C/NO/NC

Auto/On/Off jumper for plant checkout and override.

Universal AC or DC Supply.

A remote Auto/On/Off Switch is available.

LED status indication.

Design for DIN rail mounting.

Rising cage Terminals.

Flame retardant Polyamide DIN mounting.



Specifications

Input Signal: 0 to 10V DC @ 1mA Max.
 0 to 20mA or 4 to 20mA available on request.

Output Contacts: 10 Amp @ 230V AC Resistive.

Power Supply: 24V DC @ 60mA or 24V AC @ 1.5 VA (+/-15%) S.P.D.T.

LED Indication: ON when relay energised.

Output States: Jumper selectable AUTO/ON/OFF.
 Auto, controlled by input.
 On, always on.
 Off, always off.

Electrical connections: Rising cage terminals for 0,5 to 2,5mm² cable.

Ambient Conditions: -10 to 50°C 0 to 80% RH non-condensing.

Dimensions: 80 x 68 x 52mm.

Weight 112g

I.P. Rating: IP00.

Mounting Flame retardant green Polyamide 66 UL 94V0 moulding.
 To suit 35mm top hat din rail.

Switching Tables

Fan/Cool/Heat mode H selected

Input	Relay A	Relay B	Relay C	Function
0V DC	OFF	OFF	OFF	Off
4V DC	ON	ON	OFF	Fan + Cool
7V DC	ON	OFF	OFF	Dead band
10V DC	ON	OFF	ON	Fan + Heat

Stepped mode I selected

Input	Relay A	Relay B	Relay C	Function
0V DC	OFF	OFF	OFF	Off
4V DC	ON	OFF	OFF	Stage 1 on
7V DC	ON	ON	OFF	Stage 1&2 on
10V DC	ON	ON	ON	Stage 1,2&3 on

The table shows the set voltages to be applied to the input to ensure reliable switching.

See also the MOD 3 RM Installation Sheet for wiring detail.

Watchtower Trading reserves the right to update this product, revise and update this publication including information hereof without obligation to notify any person of such updates, revisions or changes.

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