



### Product Overview

The AX-RM2S converts a 0-10V dc input signal into a sequenced relay output pair. The module can be configured with or without stage delays and has two possible sequencing modes. Applications include the control of two compressors on a refrigerant circuit. The unit has an adjustable timer function. The AX-RM2S is powered from 24V ac or 24V dc and is designed to fit onto TS35 Section DIN Rail.

### Features

- 0-10V dc Input
- 2 x SPCO Relay Outputs
- On/Off/Auto Override
- Sequencing of two units
- Adjustable Timer Range
- LED Indication
- High Quality Rising Clamp Terminals
- DIN Rail Mounting (TS35)

### Product Specifications

<b>Input Signal:</b>		0-10V dc (1mA max)
<b>Output Contacts:</b>		2 x SPCO
<b>Contact Rating:</b>		12A @ 230V ac (res.)
<b>Power Supply:</b>		24V ac or dc
<b>Power Consumption:</b>		70mA max @ 24Vac 50mA max @ 24Vdc
<b>Mode of Operation:</b>		Linear High/ Low Sequencing Circular Sequencing
<b>Manual Override:</b>		ON/OFF/AUTO (Link Selectable)
<b>Timer:</b>	AX-RM2S	0 to 30 seconds per stage
	AX-RM2S/2	0 to 240 seconds per stage
<b>Terminals:</b>		Rising Clamp for 0.5-2.5mm <sup>2</sup> Cable
<b>LED Indicators:</b>		On when relay energised
<b>Ambient Temp. Range:</b>		0 to 50°C
<b>Dimensions:</b>		83mm (l) x 46mm (w) x 45mm (h) (approx.)
<b>Weight:</b>		72 gms
<b>Country of Origin:</b>		United Kingdom

### Order Codes

AX-RM2S	-	Dual Relay Sequencing Module with Timer 0 to 30 secs
AX-RM2S/2	-	Dual Relay Sequencing Module with Timer 0 to 240 secs

### Configuration - Relay Modes

The AX-RM2S is a two relay sequencing module with two sequencing modes selectable from the jumpers on the function link .

The stage delay can be set between 0 and 30 seconds (0 and 240 seconds for the AX-RM2S/2 ) using the timer adjustment potentiometer .

The units are factory preset to no delay ( timer potentiometer fully anti-clockwise )

#### Linear Sequencing mode table

Input Voltage	Relay 1	Relay 2	Function Link
0V	OFF	OFF	
5V	ON	OFF	
10V	ON	ON	
5V	ON	OFF	
0V	OFF	OFF	
5V	OFF	ON	
10V	ON	ON	
5V	OFF	ON	
0V	OFF	OFF	
5V	ON	OFF	
10V	ON	ON	
5V	ON	OFF	
0V	OFF	OFF	
5V	OFF	ON	
10V	ON	ON	
5V	OFF	ON	
0V	OFF	OFF	

**Note:**  
The lead relay sequences when both relays are off

#### Circular Sequencing mode table

Input Voltage	Relay 1	Relay 2	Function Link
0V	OFF	OFF	
5V	ON	OFF	
10V	ON	ON	
5V	OFF	ON	
10V	ON	ON	
5V	ON	OFF	
10V	ON	ON	
5V	OFF	ON	
10V	ON	ON	
5V	ON	OFF	
10V	ON	ON	

**Note:**  
The module sequences after each change of state, causing the stage on the longest to switch off first.

### Timer Selection

There are two timer options fully adjustable the standard unit is 0 to 30 seconds delay per stage using the timer adjustment potentiometer. , if you require 0 to 240 seconds please order the AX-RM2S/2.  
The units will be factory preset to no delay when the potentiometer is fully anti-clockwise

N.B. Other timings may be available

### Commissioning

Two Links are provided as a commissioning aid ON-OFF-AUTO (H = ON, O = OFF, A = AUTO)one for each relay .  
In the ON position, the appropriate relay will be energised regardless of the 0-10Vdc Input Voltage, likewise in the OFF position the relay will remain off. When the jumper is in the AUTO position, the relays will be energised in accordance with the mode of operation .

### Connection

The diagram below shows the terminal designations and board layout for the AX-RM2S range

