INNOTECH®

DS 3.13
August 2013

**Models:**
IRM5004: 4 Channel Relay Module
IRM5008: 8 Channel Relay Module

# IRM500x
# Relay Modules

## Specifications

### Power Supply
Voltage: 24VAC ±10% @ 50/60Hz OR
Power Consumption: 5VA Max.

The operating voltage must meet the requirements of Safety Extra Low Voltage (SELV) to EN60730. The transformer used must be a **Class 2 safety transformer** that has the energy and voltage limiting characteristics as described in the National Electrical Code, ANSI/ NFPA70. It must also be sized and fused in compliance with local safety regulations.

### Input
IRM5004 Four 0-10VDC Control Inputs
IRM5008 Eight 0-10VDC Control Inputs

### Outputs
N/O voltage free contacts (2A max. @ 24VAC)

### Power Terminal Identification
24V 24VAC Supply
0V Common and 0VAC Supply (x2)

### Input Terminal Identification
1 to 8 Individual Control Signals
Com Control Signal Common

### Relay Terminal Identification
***IRM5004***
A, C, E, G Normally Open Relay Outputs
B, D, F, H Relay Common

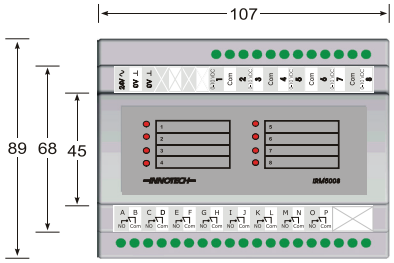
***IRM5008***
A, C, E, G, I, K, M, O Normally Open Relay Outputs
B, D, F, H, J, L, N, P Relay Common

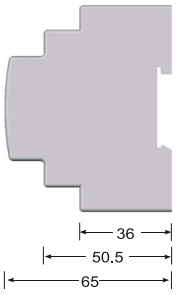
### Temperature Ratings
Storage: 0-50°C non-condensing
Operating: 0-40°C non-condensing

### Enclosure
Manufactured from an ignition resistant grade of ABS which meets the requirements of AS2420.
Colour: Grey
Mounting: DIN rail mounted

## Installation
1. Mount controller is a dry and reasonably clean location free or excessive vibration.
2. Fit to DIN Rail.
3. Wire in accordance with INNOTECH connection diagrams and local bylaws or refer to your local distributor.

## Wiring
1. Earth one side of the 24VAC at the transformer.
2. Connect the EARTHED side of the 24VAC to the 0V terminal.
3. Connect the remaining side of the transformer to the 24V terminal.



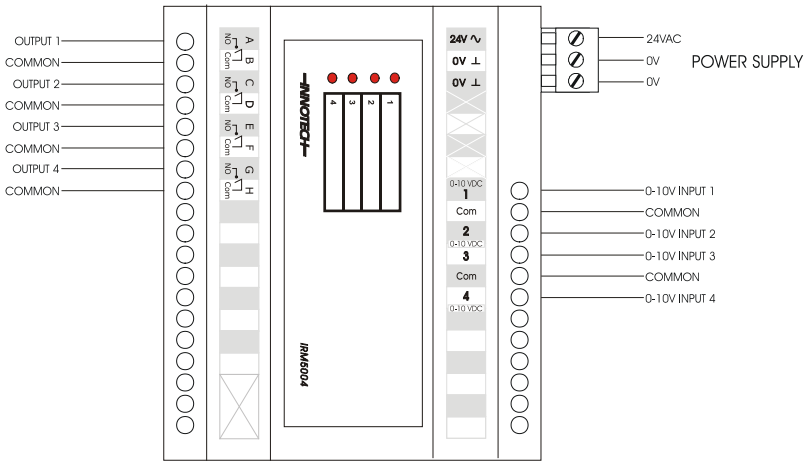

## Application
The INNOTECH range of Relay Modules are designed for applications where up to eight individual 0-10VDC control signal inputs are required to control up to eight individual stages of heating or cooling in air conditioning and associated systems. The switching threshold for the control signals are as in the table below.

| Channel | ON | OFF |
|---|---|---|
| 1 | 2.5 | 0.5 |
| 2 | 5 | 2.5 |
| 3 | 7.5 | 5 |
| 4 | 9.5 | 7.5 |
| 5 | 2.5 | 0.5 |
| 6 | 5 | 2.5 |
| 7 | 7.5 | 5 |
| 8 | 9.5 | 7.5 |

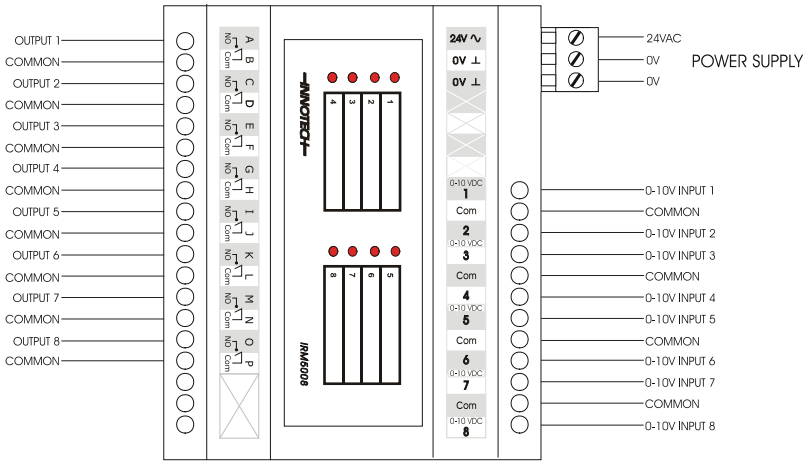
## Features
- Factory set ON/OFF points need no adjustment
- Reduced commissioning time
- LED indication of relay status
- The INNOTECH enclosure saves space and reduces installation time

## Approved
The Innotech Relay Module conforms to:
- EN 55011 Class B Group 1 & AS/NZS 2064:1997 for RCM labelling
- FCC Title 47 CFR, Part 15 Class A for FCC Marking
- UL listed to UL916, File Number E242628

## IRM5004




## IRM5008




### FCC Class A Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

**Note** – This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Modifications to this device, may void the authority granted to the user by the FCC to operate this equipment.

INNOTECH®

Australian Owned, Designed & Manufactured
by Mass Electronics Brisbane

**Phone:** +61 7 3421 9100 **Fax:** +61 7 3421 9101
**Email:** sales@innotech.com.au www.innotech.com.au

YOUR DISTRIBUTOR