

Job Name:

Schedule Reference:

Date:



- Dimensions: (H x W x D) 27.5 mm x 45.6 mm x 11 mm

## **SPECIFICATIONS:**

- Allows connection of North American Thermostat with Mitsubishi Electric ductless indoor units.
- One Thermostat Interface per indoor unit
- Indoor unit modes: Cool, Heat, Fan, Auto and Off
- Addressing: No addressing required
- Connection: CN105 - IT Terminal
- Thermostat: Single or Two stage conventional and Heat pump operation
- Terminal Block: Input signals 24 VAC Rated

## **REQUIREMENTS:**

- Compatible North American Thermostat 24 VAC output signals
- Thermostat can be set to Conventional or Heat pump mode for optimum operation

## **ADVANCED FEATURES:**

- Lower set point of 10 degrees C for indoor units that support lower setting
- Selectable Default 'G' Signal Fan Speed (*Low, Med, High*)
- Selectable Fan speeds during two stage operation
- Auto mode availability for ported systems
- Error output signal
- INVERTER operation settings:
  - Optimized conventional/heat pump simulated VRF operation (1H/1C)
  - Optimized conventional/heat pump two stage operation (2H/2C)
- Auto recovery after power failure

## **ACCESSORIES:**

- Transformer (VPL24-210) available from Mitsubishi Electric

Please note: MESCA supports auxiliary heater control via CN24 for residential products ONLY. Auxiliary heater control other than CN24 may effect or void manufacturer product warranty.\*

Notes:

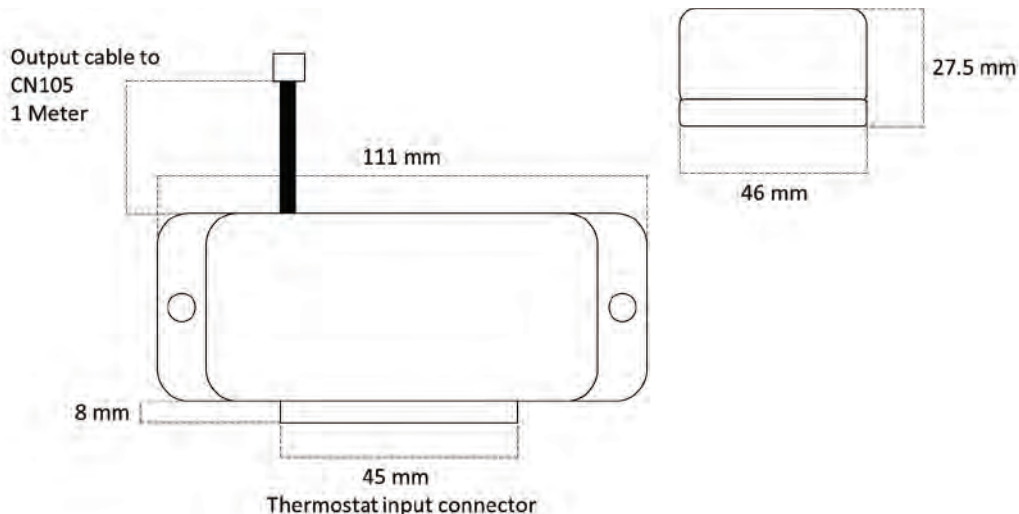
Specifications are subject to change without notice.

# RMF-CA200-V2:FEATURES

| Feature                                 |  |
|---|--|
| Compatible Operation Modes (Thermostat) | Conventional, Heat Pump                        |
| Auxiliary Heater Control                | NO - Use signal direct from Thermostat         |
| Temperature Control                     | YES  |
| Fan Control                             | Default AUTO adjustable via DIP switch setting |
| Vane Control                            | Default AUTO adjustable via DIP switch setting |
| Error Code                              | NO   |
| Mode / Setting control                  | NO   |
| Flame Retardant ABS Plastic Case        | YES (UL rating 94V-0)                          |
| ROHS Compliant                          | YES  |

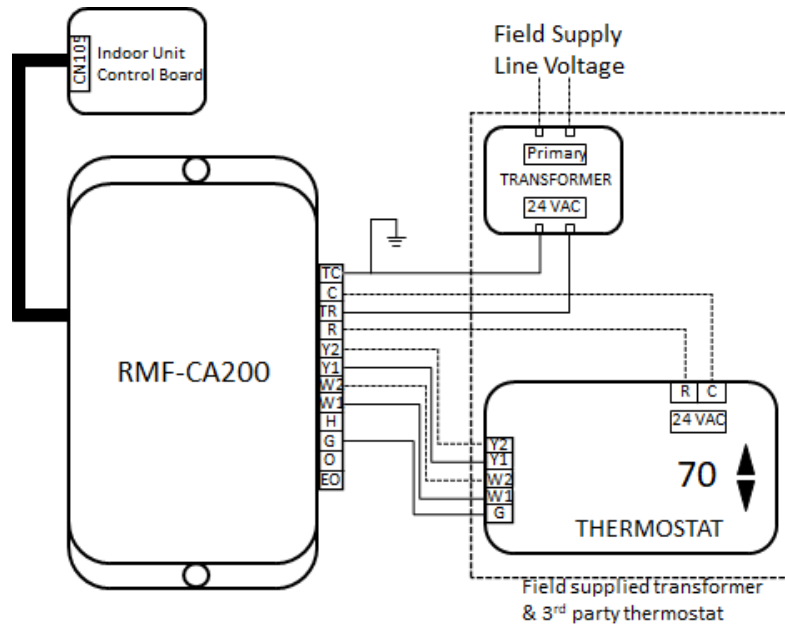
| PIN | Function     |           | Description                |                             | Signal Type  |
|-----|--------------|-----------|----------------------------|-----------------------------|--------------|
|     | Conventional | Heat Pump | Conventional               | Heat Pump                   |              |
| 1   | TC           | TC        | Common (IN) Transformer    | Common (IN) Transformer     | Common       |
| 2   | C            | C         | Common (Out) To Thermostat | Common (Out) To Thermostat  | Common       |
| 3   | TR           | TR        | 24 VAC (IN) Transformer    | 24 VAC (IN) Transformer     | 24Vac        |
| 4   | R            | R         | 24 VAC (IN) Thermostat     | 24 VAC (OUT) to Thermostat  | 24Vac        |
| 5   | Y2           | Y2        | Stage 2 Cooling            | Heat Pump Stage 2 Heat/Cool | Input, 24Vac |
| 6   | Y1           | Y1        | Stage 1 Cooling            | Heat Pump Stage 1 Heat/Cool | Input, 24Vac |
| 7   | W2           | W2        | Stage 2 Heat               | Not Available               | Input, 24Vac |
| 8   | W1           | OB        | Stage 1 Heat               | Heat pump Heat / Cool mode  | Input, 24Vac |
| 9   | H            | H         | Not Available              | Not Available               | N/A          |
| 10  | G            | G         | Fan                        | Fan                         | Input, 24Vac |
| 11  | O            | O         | Not Available              | Not Available               | N/A          |
| 12  | EO           | EO        | Error Output (Out)         | Error Output (Out)          | Output 24Vac |

## RMF-CA200-V2: OUTLINE



# RMF-CA200-V2: WIRING DIAGRAMS

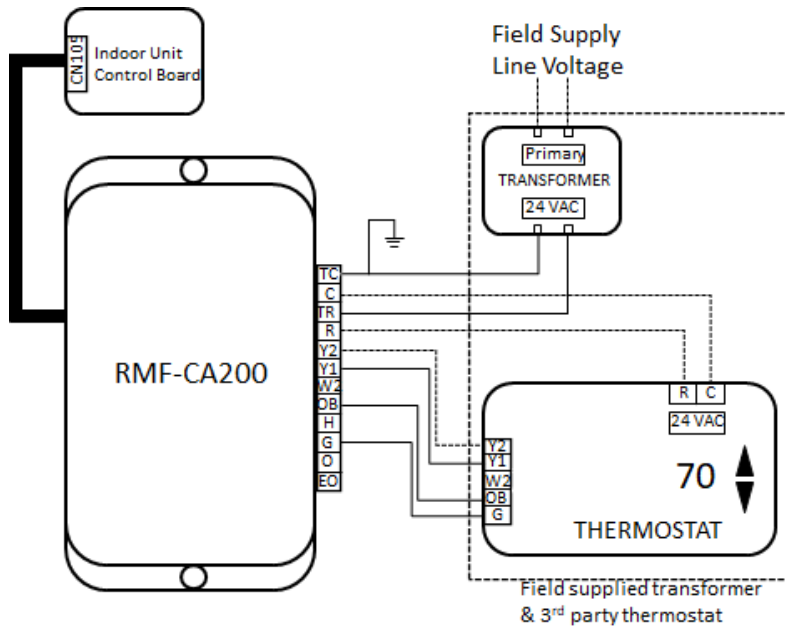
## Single/Two - Stage Conventional Mode



| Thermostat Conventional Mode Connections |        |                                    |
|--|--------|------------------------------------|
| Pin                                      | Signal | Description                        |
| 1  | TC     | Common (IN) Transformer            |
| 2  | C      | Common (Out) To Thermostat         |
| 3  | TR     | 24 VAC (IN) Transformer            |
| 4  | R      | 24 VAC (IN) Thermostat             |
| 5  | Y2     | Stage 2 Cooling                    |
| 6  | Y1     | Stage 1 Cooling                    |
| 7  | W2     | Stage 2 Heat                       |
| 8  | W1     | Stage 1 Heat                       |
| 9  | H      | Not Available                      |
| 10                                       | G      | Fan                                |
| 11                                       | O      | <b>DO NOT CONNECT TO INTERFACE</b> |
| 12                                       | EO     | Error Output (Out)                 |

In single stage operation Y2, W2 signals are not used

## Heat Pump Mode



| Thermostat Heat Pump Mode Connections |        |                             |
|---------------------------------------|--------|-----------------------------|
| Pin                                   | Signal | Description                 |
| 1                                     | TC     | Common (IN) Transformer     |
| 2                                     | C      | Common (Out) To Thermostat  |
| 3                                     | TR     | 24 VAC (IN) Transformer     |
| 4                                     | R      | 24 VAC (OUT) to Thermostat  |
| 5                                     | Y2     | Heat Pump Stage 2 Heat/Cool |
| 6                                     | Y1     | Heat Pump Stage 1 Heat/Cool |
| 7                                     | W2     | N/A                         |
| 8                                     | OB     | Heat pump Heat / Cool mode  |
| 9                                     | H      | Not Available               |
| 10                                    | G      | Fan                         |
| 11                                    | O      | Not Available               |
| 12                                    | EO     | Error Output (Out)          |