

# RM<sub>2</sub>

# Cluster I/O Modules



Analogue Sensor Trip Module with optional test button shown

A range of modular I/O applications to expand or augment Parasense product functionality.

## Product Details

### Versions

- **8 and 16 Relays Outputs** : Additional control eg lighting and HVAC processes
- **8 and 16 Digital Inputs** : General purpose eg BMS, faults alarms
- **4 Temperatures/4 Pressures** : 4 x PT1000 temperature inputs and 4 analogue pressure inputs
- **4 Temperatures** : 4 x PT1000 temperature inputs
- **6 Energy Circuits** : 6 x 3 phase energy monitoring circuits
- **4 High Speed Counters** : Pulse meter inputs eg gas, water and electricity
- **Analogue Sensor Trip Module** : Analogue input and relays eg network gas detection sensors

### Certifications

- EN61010-1:2010
- UL61010-1
- CSA C22.2 61010-1
- MET Listing E112074

### Operating Conditions

- Operating temperature: 0 to 43°C
- Storage temperature: -23 to 66°C
- Relative humidity: 0 to 95% RH (non-condensing)

### Network

- RS485
- 2 rotary address switches - up to 99 addresses

### Power Requirements

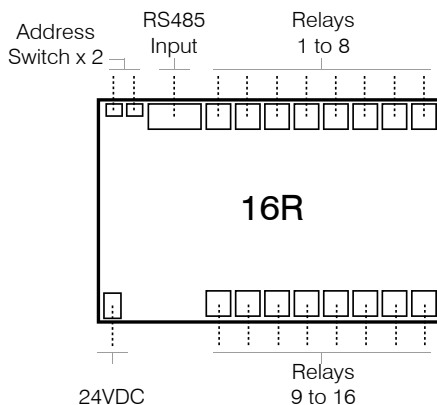
- 24V DC, 650mA



## Product Specification

### Relay Outputs

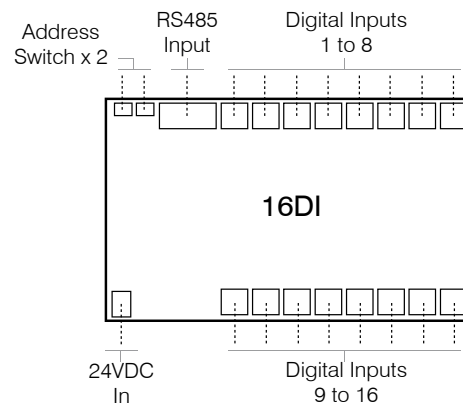
- Additional control eg lighting, HVAC processes
- Volt free change-over relay
- Max switching voltage: 250V AC/100V DC
- Max switching current: 10A AC/5A DC (resistive)



Version	Length	Width	Height
16 Relays	185mm	195mm	61mm
8 Relays	119mm	195mm	61mm

### Digital Inputs

- General purpose inputs eg BMS signals, faults
- 0 to 24V DC
- Logic '0' < 2.5V ; Logic '1' > 2.5V

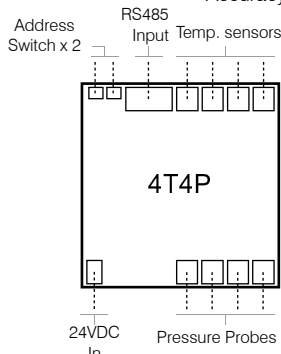


Version	Length	Width	Height
16 Inputs	140mm	195mm	61mm
8 Inputs	94mm	195mm	61mm

# Product Specification (continued)

## 4 Temperature / 4 Pressure Inputs

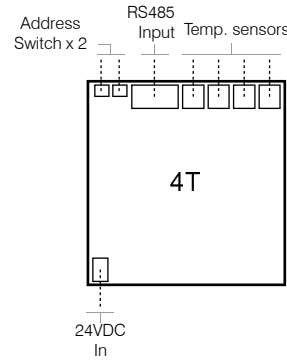
- 4 x PT1000 temperature inputs
- Range: -50 to 105°C
- Resolution: 0.1°C
- Accuracy: 0.5°C or 0.45% full span
- 4 x Analogue inputs
- Range: 4 to 20mA
- Supply voltage: 24V DC max, 12V DC min
- Accuracy: ± 0.05mA



Version	Length	Width	Height
4T/4P	240mm	160mm	90mm

## 4 Temperature Inputs

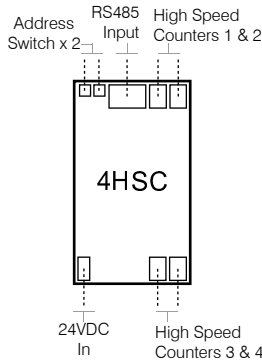
- 4 x PT1000 temperature inputs
- Range: -50 to 105°C
- Resolution: 0.1°C
- Accuracy: 0.5°C or 0.45% full span



Version	Length	Width	Height
4T	240mm	160mm	90mm

## 4 High Speed Counters

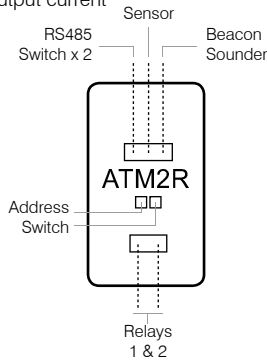
- Output (with volt free contacts): 24V DC
- Input: 0-24V DC
- Max. pulse frequency: 1kHz
- Min. pulse duration: 500µs
- Logic '0' < 2V; Logic '1' > 5V



Version	Length	Width	Height
4HSC	240mm	160mm	90mm

## Analogue Sensor Blue Module

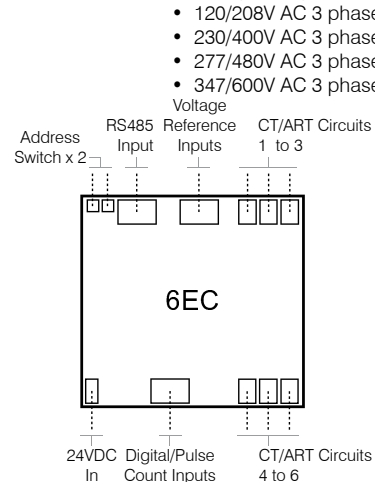
- Analogue input
- Range: 4 to 20mA
- Supply voltage: 24V DC max, 12V DC min
- Accuracy: ± 0.05mA
- Beacon/Sounder
- 24V DC, 200mA max output current
- 2 Output Relays
- Volt free change-over
- Max switching voltage: 250V AC/100V DC
- Max switching current: 10A AC/5A DC (resistive)



Version	Length	Width	Height
ATM2R	160mm	90mm	60mm

## 6 Energy Circuits

- 6 x SART Inputs
- Current range (per phase): 2-2500A
- Secondary range: 0-150mA
- Open circuit protection provided
- Accuracy: Better than 1%
- Revenue grade - complies with ANSI C12.16
- 2 x Pulse Counter Inputs
- Output (with volt free contacts): 24V DC
- Input: 0-24V DC
- Max. pulse frequency: 1kHz
- Min. pulse duration: 500µs
- Logic '0' < 2V; Logic '1' > 5V
- Voltage Ranges Monitored



Version	Length	Width	Height
6EC	185mm	195mm	61mm

