

# ADAM-4115

# ADAM-4015

Robust 6-Ch RTD Input Module

6-ch RTD Module with Modbus



ADAM-4115



ADAM-4015



## Specifications

### General

- **Certification** CE, FCC
- **Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Power Consumption** 1.2 W @ 24 V<sub>DC</sub>
- **Watchdog Timer** System (1.6 s) & Communication
- **Supported Protocols** ASCII command and Modbus/RTU
- **Interface** RS-485, Micro USB

### RTD Input

- **Channels** 6 differential
- **Input Connections** 2, 3-wire
- **Sampling Rate** 10/100 Hz total channels (selected by utility)
- **Input Type** Pt, Balco, Ni and BA1 RTD
- **RTD Types and Temperature Ranges**
  - Pt 100 RTD:**
    - Pt -50°C to 150°C
    - Pt 0°C to 100°C
    - Pt 0°C to 200°C
    - Pt 0°C to 400°C
    - Pt -200°C to 200°C
  - Pt 1000 RTD**
    - Pt -40°C to 160°C
  - Balco 500 RTD**
    - 30°C to 120°C
  - Ni 50 RTD**
    - Ni -80°C to 100°C
  - Ni 508 RTD**
    - Ni 0°C to 100°C
- **Accuracy** ±0.1%
- **Span Drift** ± 25 ppm/°C
- **Zero Drift** ±6 μV/°C

## Specifications

### General

- **Certification** CE, FCC
- **Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Power Consumption** Typical: 0.5 W @ 24 V<sub>DC</sub>  
Max.: 0.9 W @ 24 V<sub>DC</sub>
- **Watchdog Timer** System (1.6 s) & Communication
- **Supported Protocols** ASCII command and Modbus/RTU
- **Burnout Detection** Yes

### Analog Input

- **Channels** 6 differential
- **Input Connections** 2, 3-wire
- **Input Impedance** 10 MΩ
- **Input Type** Pt, Balco, Ni and BA1 RTD
- **RTD Types and Temperature Ranges**
  - Pt 100 RTD:**
    - Pt -50°C to 150°C
    - Pt 0°C to 100°C
    - Pt 0°C to 200°C
    - Pt 0°C to 400°C
    - Pt -200°C to 200°C
  - IEC RTD 100 ohms (α = 0.00385)
  - JIS RTD 100 ohms (α = 0.00392)
  - Pt 1000 RTD**
    - Pt -40°C to 160°C
  - Balco 500 RTD**
    - 30°C to 120°C
  - Ni 50 RTD**
    - Ni -80°C to 100°C
  - Ni 508 RTD**
    - Ni 0°C to 100°C
  - BA1**
    - 200°C to 600°C
- **Accuracy** ±0.1% (Typical)
- **CMR @ 50/60 Hz** 120 dB
- **Span Drift** ± 25 ppm/°C
- **Zero Drift** ± 6 μV/°C

## Common Specifications

### General

- **Power Input** Unregulated 10 ~ 30 V<sub>DC</sub>  
ADAM-4115: 10 ~ 48 V<sub>DC</sub>

### Environment

- **Operating Humidity** 5 ~ 95% RH

- **Operating Temperature** -10 ~ 70°C (14 ~ 185°F)  
ADAM-4115: -40 ~ 85°C (-40 ~ 185°F)
- **Storage Temperature** -25 ~ 85°C (-13 ~ 185°F)  
ADAM-4115: -40 ~ 85°C (-40 ~ 185°F)

## Ordering Information

- **ADAM-4115** Robust 6-Ch RTD Input Module
- **ADAM-4015** 6-ch RTD Module with Modbus

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