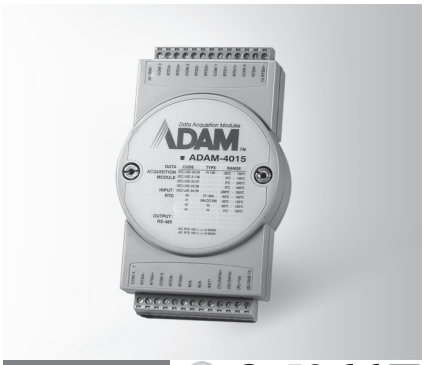
ADAM-4115
ADAM-4015
ADAM-4024

Robust 6-Ch RTD Input Module

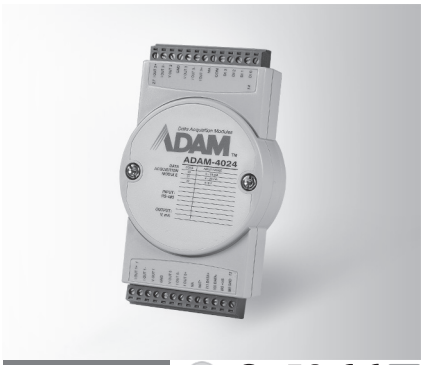
6-ch RTD Module with Modbus

4-ch Analog Output Module with Modbus

ADAM-4115



ADAM-4015



ADAM-4024

Specifications

General

- **Certification** CE, FCC
- **Connectors** 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- **Power Consumption** 1.2 W @ 24 V_{DC}
- **Watchdog Timer** System (1.6 second)
- **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 and Ni 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, UL, UL Class I Division 2
- **Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Power Consumption** 1.2 W @ 24 V_{DC}
- **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 and Ni 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 (a = 0.00385)
JIS RTD 100 ohms (a = 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** ± 3 μV/°C

Specifications

General

- **Certification** CE, FCC, UL, UL Class I Division 2
- **Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Power Consumption** 3 W @ 24 V_{DC}
- **Watchdog Timer** System (1.6 second) & Communication
- **Supported Protocols** ASCII command and Modbus/RTU

Analog Output

- **Channels** 4
- **Output Impedance** 0.5 Ω
- **Output Range** 0 ~ 20 mA, 4 ~ 20mA, ±10 V
- **Output Type** mA, V (Differential)
- **Accuracy** ±0.1 % of FSR for current output
  ±0.1 % of FSR for voltage output
- **Current Load Resistor** Max. 500 Ω (source)
- **Voltage Load Resistor** Min. 1K Ω
- **Resolution** 12-bit
- **Isolation Voltage** 3,000 V_{DC}
- **Programmable Output Slope** 0.125 ~ 128 mA/sec.
  0.0625 ~ 64.0 V/sec.
- **Span Temperature Coefficient** ±25 ppm/°C
- **Zero Drift** Voltage output: ±30 μV/°C
  Current output: ±0.2 μA/°C

Digital Input

- **Channels** 4
- **Input Level** Logic level 0: 1 V max.
  Logic level 1: 10 ~ 30 V_{DC}
- **Isolation Voltage** 3,000 V_{DC}

Common Specifications

General

- **Power Input** Unregulated 10 ~ 30 V_{DC}
  ADAM-4115: 10 ~ 48 V_{DC}

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
- **ADAM-4024** 4-ch Analog Output Module with Modbus

All product specifications are subject to change without notice.