**ADAM-4021 ADAM-4015 ADAM-4024**

**1-ch Analog Output Module**

**6-ch RTD Module with Modbus**

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

 **ADAM-4021**

RoHS

**COMPLIANT**

2002/95/EC

 **ADAM-4015**

RoHS

**COMPLIANT**

2002/95/EC

 **ADAM-4024**

RoHS

**COMPLIANT**

2002/95/EC

**Specifications**

## General

* **Connectors** 2 x plug-in terminal blocks (#14 ~ 22 AWG)
* **Power Consumption** 1.4 W @ 24 VDC
* **Watchdog Timer** System (1.6 second)
* **Supported Protocols** ASCII command

# Specifications

## General

* **Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
* **Power Consumption** 1.2 W @ 24 VDC
* **Watchdog Timer** System (1.6 s) &

Communication

* **Supported Protocols** ASCII command and

# Specifications

## General

* **Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
* **Power Consumption** 3 W @ 24 VDC
* **Watchdog Timer** System (1.6 second) &

Communication

* **Supported Protocols** ASCII command and

## Analog Output

### Channels 1

* **Burnout Detection**

**Analog Input**

Modbus/RTU Yes

## Analog Output

Modbus/RTU

* **Output Impedance** 0.5 
* **Output Range** 0 ~ 20 mA, 4 ~ 20 mA,

0 ~ 10 V

* **Output Type** mA, V
* **Accuracy** ±0.1% of FSR for current output

±0.2% of FSR for voltage output

* **Current Load** 0 to 500  (source)

### Resistor

* **Resolution** 12-bit
* **Isolation Voltage** 3,000 VDC
* **Programmable** 0.125 ~ 128 mA/sec.

**Output Slope** 0.0625 ~ 64.0 V/sec.

* **Readback Accuracy** ±1% of FSR
* **Span Temperature** ±25 ppm/°C

### Coefficient

* **Zero Drift**

Voltage output: ±30 µV/°C

Current output: ±0.2 µA/°C

# Common Specifications

## General

 **Power Input** Unregulated 10 ~ 30 VDC

* **Channels** 6 differential
* **Input Connections** 2, 3-wire
* **Input Impedance** 10 M
* **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

## Environment

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

 **Operating** -10 ~ 70°C (14 ~ 185°F)

### Temperature

* **Storage Temperature** - 25 ~ 85°C

(-13 ~ 185°F)

### Channels 4

* **Output Impedance** 0.5 
* **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** Max. 500 

**Resistor** (source)

* **Voltage Load** Min. 1K 

### Resistor

* **Resolution** 12-bit
* **Isolation Voltage** 3,000 VDC
* **Programmable** 0.125 ~ 128 mA/sec.

**Output Slope** 0.0625 ~ 64.0 V/sec.

* **Span Temperature** ±25 ppm/°C

### Coefficient

* **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 VDC
* **Isolation Voltage** 3,000 VDC

**Ordering Information**

* **ADAM-4021** 1-ch Analog Output Module
* **ADAM-4015** 6-ch RTD Module with Modbus
* **ADAM-4024** 4-ch Analog Output Module with Modbus

 **RS-485 I/O Modules: ADAM-4000**

All product specifications are subject to change without notice. Last updated: 27-Jun-2018