

**ADAM-4021**

**ADAM-4015**

**ADAM-4024**



**1-ch Analog Output Module**

**6-ch RTD Module with Modbus**

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



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| **ADAM-4021** |  |  |  | |  |
|  |  | **COMPLIANT** |  |  |
|  |  |  | **RoHS** |  |  |
|  |  |  | 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 | | |  |
| **Analog Output** | |  |  |  |  |
| ** Channels** | | 1 |  |  |  |
| ** Output Impedance** | | 0.5 Ω | | |  |
| ** 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 Ω (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 | | |  |



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| **ADAM-4015** |  |  |  |
|  | **RoHS** |  |
|  | **COMPLIANT** |  |
|  |  | 2002/95/EC |  |
|  |  |  |  |



**Specifications**

**General**

|  |  |  |
| --- | --- | --- |
| ** Connectors** | 2 x plug-in terminal blocks |  |
| ** Power Consumption** | (#14 ~ 28 AWG) |  |
| 1.2 W @ 24 VDC |  |
| ** Watchdog Timer** | System (1.6 s) & |  |
| ** Supported Protocols** | Communication |  |
| ASCII command and |  |
| ** Burnout Detection** | Modbus/RTU |  |
| 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 |

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| **ADAM-4024** | 2002/95/EC |
|  | **RoHS** |
|  | **COMPLIANT** |



**Specifications**

**General**

|  |  |  |
| --- | --- | --- |
| ** Connectors** | 2 x plug-in terminal blocks |  |
| ** Power Consumption** | (#14 ~ 28 AWG) |  |
| 3 W @ 24 VDC |  |
| ** Watchdog Timer** | System (1.6 second) & |  |
| ** Supported Protocols** | Communication |  |
| ASCII command and |  |
|  | Modbus/RTU |  |
| **Analog Output** |  |  |
| ** Channels** | 4 |  |
| ** Output Impedance** | 0.5 Ω |  |
| ** Output Range** | 0 ~ 20 mA, 4 ~ 20mA, |  |
| ** Output Type** | ±10 V |  |
| mA, V (Differential) |  |
| ** Accuracy** | ±0.1 % of FSR for current |  |
|  | output |  |
|  | ±0.1 % of FSR for voltage |  |
|  | output |  |
| ** Current Load** | Max. 500 Ω |  |
| **Resistor** | (source) |  |
| ** Voltage Load** | Min. 1K Ω |  |
| **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. |  |
| **** | **Isolation Voltage** | Logic level 1: 10 ~ 30 VDC |  |
| 3,000 VDC |  |

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| **Common Specifications** | |  |  |  | **Ordering Information** | |  |
| **General** |  | **Environment** |  |  | ** ADAM-4021** | 1-ch Analog Output |  |
|  |  |  |  | Module |  |
| ** Power Input** | Unregulated 10 ~ 30 VDC | ** Operating Humidity** | 5 ~ 95% RH |  |  |  |
|  | ** ADAM-4015** | 6-ch RTD Module with |  |
|  |  | ** Operating** | -10 ~ 70°C (14 ~ 185°F) |  |  |
|  |  |  |  | Modbus |  |
|  |  | **Temperature** |  |  | ** ADAM-4024** | 4-ch Analog Output |  |
|  |  | ** Storage Temperature** - 25 ~ 85°C | |  |  |
|  |  |  |  | Module with Modbus |  |
|  |  |  | (-13 ~ 185°F) |  |  |  |  |
|  |  |  |  |  |  |  |  |



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

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