

**ADAM-4050**

**ADAM-4051**

**ADAM-4052**



**15-ch Digital I/O Module**

**16-ch Isolated Digital Input Module with Modbus**

**8-ch Isolated Digital Input Module**



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| **ADAM-4050** |  |  |  |  |
|  |  | **COMPLIANT** |  |  |
|  |  |  | **RoHS** |  |  |
|  |  |  | 2002/95/EC |  |  |
| **Specifications** |  |
| **General** |  |  |  |  |
| ** Connectors** | 2 x plug-in terminal blocks |  |
|  |  | (#14 ~ 22 AWG) |  |
| ** Power Consumption** | 0.4 W @ 24 VDC |  |
| ** Watchdog Timer** | System (1.6 second) |  |
| ** Supported Protocols** | ASCII command |  |
| **Digital Input** |  |  |  |  |
| ** Channels** | 7 |  |  |  |
| ** Input Level** | Logic level 0: 1 V max. |  |
|  |  | Logic level 1: 3.5 ~ 30 V |  |
|  |  | Pull up current: 0.5 mA, |  |
|  |  | 10 kΩ resistor to 5 V |  |
| **Digital Output** |  |  |  |  |
| ** Channels** | 8 |  |  |  |
|  |  | open collector to 30 V, |  |
|  |  | 30 mA max. load |  |
| ** Power Dissipation** | 300 mW |  |



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| **ADAM-4051** |  |  |  | **COMPLIANT** |
|  |  |  |  | **RoHS** |
|  |  |  |  | 2002/95/EC |
| **Specifications** |
| **General** |  |
| ** Connectors** | 2 x plug-in terminal blocks |
|  |  |  |  | (#14 ~ 28 AWG) |
| ** Power Consumption** | 1 W @ 24 VDC |
| ** Watchdog Timer** | System (1.6 second) |
| ** Supported Protocols** | ASCII command and |
|  |  |  |  | Modbus/RTU |
| ** LED Indicators** | Yes |
| **Digital Input** |  |
| ** Channels** | 16 |
| ** Input Voltage** | 50 V max |
| ** Input Level** |  |
| Dry contact: | Logic level 0: open |
|  |  |  |  | Logic level 1: close to |
|  |  |  |  | GND |
| Wet contact: | Logic level 0: 3 V max |
|  |  |  |  | Logic level 1: 10 ~ 50 V |
| (Note: Digital Input levels 0 and 1 can be inverted) |
| ** Isolation Voltage** | 2,500 VDC |
| ** Input Resistance** | 5.2 kΩ |
| ** Overvoltage** | 70 VDC |
| **Protection** |  |



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| **ADAM-4052** |  |  |  |  |
|  |  | **COMPLIANT** |  |  |
|  |  |  | **RoHS** |  |  |
|  |  |  | 2002/95/EC |  |  |
| **Specifications** |  |
| **General** |  |  |  |  |
| ** Connectors** | 2 x plug-in terminal blocks |  |
|  |  | (#14 ~ 22 AWG) |  |
| ** Power Consumption** | 0.4 W @ 24 VDC |  |
| ** Watchdog Timer** | System (1.6 second) |  |
| ** Supported Protocols** | ASCII command |  |
| **Digital Input** |  |  |  |  |
| ** Channels** | 8 |  |  |  |
|  |  | (6 fully independent |  |
|  |  | isolated channels, 2 |  |
|  |  | isolated channels with |  |
|  |  | common ground) |  |
| ** Input Level** | Logic level 0: 1 V max. |  |
|  |  | Logic level 1: 3 ~ 30 V |  |
| ** Isolation Voltage** | 5,000 VRMS |  |
| ** Input Resistance** | 3 kΩ |  |



**Common Specifications**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **General** |  | **Environment** |  |  |  |
| ** Power Input** | Unregulated 10 ~ 30 VDC | ** Operating Humidity** | 5 ~ 95% RH |
|  |  | ** Operating** | - | 10 | ~ 70°C (14 ~ 158°F) |
|  |  | **Temperature** |  |  |  |
|  |  | ** Storage Temperature** - | 25 | ~ 85°C |
|  |  |  | (-13 ~ 185°F) |



**Ordering Information**

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| --- | --- |
| ** ADAM-4050** | 15-ch Digital I/O |
|  | Module |
| ** ADAM-4051** | 16-ch Isolated Digital |
|  | Input Module with |
|  | Modbus |
| ** ADAM-4052** | 8-ch Isolated Digital |
|  | Input Module |

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

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