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

ADAM-4050

ADAM-4051

ADAM-4052

Specifications

General

- **Certification** FCC, CE
- **Connectors** 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- **Power Consumption** 0.18 W @ 24 V DC typ. 0.2 W @ 24 V DC max.
- **Watchdog Timer** System (1.6 second)
- **Supported Protocols** ASCII command and Modbus/RTU

Digital Input

- **Channels** 7
- **Input Level**
  Dry contact: Logic level 0: close to GND
  Logic level 1: open
  Wet contact: 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

Specifications

General

- **Certification** FCC, CE
- **Connectors** 2 x plug-in terminal blocks (#14 ~ 28 AWG)
- **Power Consumption** 0.7 W @ 24 V DC typ. 1.25 W @ 24 V DC max.
- **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 V_{DC}
- **Input Resistance** 5.2 kΩ
- **Overvoltage Protection** 70 V_{DC}

Specifications

General

- **Certification** FCC, CE, UL
- **Connectors** 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- **Power Consumption** 0.4 W @ 24 V_{DC}
- **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 V_{RMS}
- **Input Resistance** 3 kΩ

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Common Specifications

General

- **Power Input** Unregulated 10 ~ 30 V_{DC}

Environment

- **Operating Humidity** 5 ~ 95% RH
- **Operating Temperature** - 10 ~ 70°C (14 ~ 158°F)
- **Storage Temperature** - 25 ~ 85°C (-13 ~ 185°F)

Ordering Information

- **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

All product specifications are subject to change without notice.

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