ADAM-4055 ADAM-4056S/4056SO **ADAM-4080**

16-ch Isolated Digital I/O Module with 12-ch Sink/Source Type Isolated Digital **Output Modules with Modbus**

2-ch Counter/Frequency Module







ADAM-4056S/4056

□ UL US F© C € ROHS

Specifications

General

Certification FM. CE. UL

2 x plug-in terminal blocks Connectors

(#14 ~ 28 AWG)

■ Power Consumption 1 W @ 24 V_{DC} **Watchdog Timer** System (1.6 second) &

Communication

ASCII command and Supported Protocols

Modbus/RTU

 Isolation Voltage $2,500 V_{DC}$ LED Indicators Yes

Digital Input

Channels

Input Level

Wet Contact:

Dry Contact: Logic level 0: open Logic level 1: close to GND

Logic level 0: 3 V max. Logic level 1: 10 ~ 50 V

Overvoltage $70 \, V_{DC}$ Protection

Digital Output

Channels

8, open collector to 40 V (200 mA max. load) Channel: 1 W max.

 Power Dissipation Total: 2.2 W (8 Channels)

Specifications

General

 Certification FCC, CE, UL, UL Class I Division 2

(ADAM-4056SO)

Connectors 2 x Plug-in terminal blocks (#14 ~ 22 AWG)

 Watchdog Timer System (1.6 second) & Communication

ASCII command and Support Protocol Modbus/RTU

 Isolation Voltage $5000\;V_{\text{DC}}$ LED Indicators Yes

ADAM-4056S

Digital Output Channels Open collector to 40V

(200mA max, load) Power Dissipation Channel: 1 W max

Total: 4 W (12 Channels)

 Digital Output Type Sink

ADAM-4056SO

Digital Output 12 Channels

VCC: 10 ~ 35 V_{DC} Current: 1A (per channel)

 Digital Output Type Source

Over Current Detection and Protection

Specifications

General

Certification

Connectors

■ Power Consumption 2.0 W @ 24 V_{DC} Watchdog Timer

ASCII command modbus/ Supported Protocols

Counter Input

Channels 2 independent counters (32-bit + 1-bit overflow)

Input Frequency 50 kHz max. Input Pulse Width

Input Mode Isolated or non-isolated

 Isolated Input Level Logic level 0: 1 V max. Logic level 1: 3.5 ~ 30 V

2,500 V_{RMS}

Isolation Voltage

Programmable Non-isolated Input Level threshold:

Logic level 0: 0.8 Vmax. Logic level 1: 2.4 ~ 5.0 V

Maximum Count

4,294,967,295 (32-bit) Preset Type Absolute or relative 2 μs ~ 65 ms

Programmable Digital Noise Filter

Alarm Alarm comparators on each counter

Frequency 5 Hz ~ 50 kHz

Measurement Range **Programmable**

1 or 0.1 second **Built-in Gate Time**

Common Specifications

General

Power Input Unregulated 10 ~ 30 VDC

Environment

■ Operating Humidity 5 ~ 95% RH Operating -10 ~ 70°C (14 ~ 158°F) Temperature

Storage Temperature -25 ~ 85°C $(-13 \sim 185^{\circ}F)$

Ordering Information

 ADAM-4055 16-ch Isolated Digital I/O Module with Modbus

ADAM-4056S 12-ch Sink Type Isolated Digital Output Module with Modbus

ADAM-4056SO 12-ch Source Type Isolated Digital Output

Module with Modbus

ADAM-4080 2-ch Counter/Frequency Modules

Digital Output

Channels 2, open collector to 30 V, 30 mA max. load 300 mW for each channel Power Dissipation

2 x plug-in terminal blocks (#14 ~ 22 AWG) System (1.6 second) RTU (E version)