# **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-4080

### FCCE ROHS

## **Specifications**

**ADAM-4055** 

#### General

 Certification FM, CE, UL

Connectors 2 x plug-in terminal blocks

(#14 ~ 28 AWG)

1 W @ 24 Vpc Power Consumption Watchdog Timer System (1.6 second) &

Communication

 Supported Protocols ASCII command and Modbus/RTU

2.500 Vpc

 Isolation Voltage LED Indicators Yes

#### **Digital Input**

Channels

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

Overvoltage 70 V<sub>DC</sub>

### 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) System (1.6 second) & Watchdog Timer

Communication Support Protocol ASCII command and

Modbus/RTU Isolation Voltage 5000 V<sub>DC</sub>

**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 VDC

Current: 1A (per channel)

 Digital Output Type Source

**Over Current Detection and Protection** 

## **Specifications**

#### General

 Certification FCC, CE

Connectors 2 x plug-in terminal blocks

(#14 ~ 22 AWG)

■ Power Consumption 2.0 W @ 24 V<sub>DC</sub> Watchdog Timer System (1.6 second)

 Supported Protocols ASCII command modbus/

RTU (E version)

#### **Counter Input**

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

Input Frequency 50 kHz max. Input Pulse Width >10 us.

 Input Mode Isolated or non-isolated Isolated Input Level Logic level 0: 1 V max.

Logic level 1: 3.5 ~ 30 V

 Isolation Voltage 2,500 V<sub>RMS</sub> Non-isolated Programmable 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

Programmable 2 us ~ 65 ms **Digital Noise Filter** 

Alarm Alarm comparators on each

> counter 5 Hz ~ 50 kHz

Frequency Measurement Range

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

### **Digital Output**

Channels 2, open collector to 30 V, 30 mA max, load

 Power Dissipation 300 mW for each channel

# **Common Specifications**

#### General

 Power Input Unregulated 10 ~ 30 V<sub>nc</sub>

#### **Environment**

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

■ Storage Temperature -25 ~ 85°C

(-13 ~ 185°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

12-ch Source Type ADAM-4056SO

Isolated Digital Output Module with Modbus

 ADAM-4080 2-ch Counter/Frequency Modules

Last updated: 25-Feb-2020