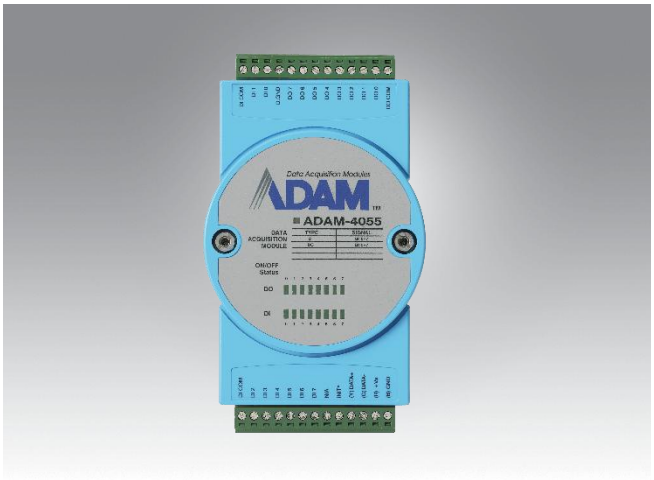
ADAM-4055

8DI/8DO Modbus RS-485 Remote I/O with PWM Output



Features

- 8-channel PWM-capable digital outputs combine ON/OFF and PWM control in one module, simplifying system architecture and reducing additional pulse-output modules
- Wide 1 Hz ~ 50 kHz PWM output range supports diverse PWM-driven devices from low-frequency modulation to high-frequency control
- 0.1% duty-cycle setting resolution enables fine-grained output adjustment for smoother speed, power, and process control
- 8-channel DI supports dry/wet contact and sink/source wiring for easy integration with different field sensors and switches
- 0.1 ~ 3 kHz frequency input and 3 kHz counter functions enable pulse and event monitoring without an additional counter module

Specifications

General

Connectors	2 x plug-in terminal blocks (#14 ~ 28 AWG)
Mounting	DIN Rail (Top Hat 7.5mm & 15mm, G type (G32)) Panel (with Panel mounting bracket)
Power Consumption	
Watchdog Timer	System (1.6 second) & Communication
Supported Protocols	ASCII command and Modbus/RTU
Physical Interface	RS-485 (2-wire)
Communication Speeds	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps
Maximum Bus Length	up to 1200m (depends on bus topology and

Digital Output

Channels	8
Type	Sink
Output Voltage	Open collector, up to 50 VDC
Output Current	Max. 200 mA (per channel)

PWM Output

Channels / Type	8 / Sink
Frequency	1 Hz ~ 20 kHz / 20 kHz ~ 50 kHz
Duty Cycle	0.5 ~ 99.5% at 1 Hz ~ 20 kHz 2 ~ 98% at 20 kHz ~ 50 kHz
Duty Cycle Resolution	0.1%
Load Voltage	3 ~ 50 VDC (for 3.3 V, 5 V, 12 V, 24 V, 48 V)
Load Current	Max. 200 mA (per channel)
PWM Mode	Continuous; burst on CH0 ~ 3 only
Trigger Source	Software

Digital Input

Channels	8
Dry Contact	Logic 0: Open Logic 1: Closed to DGND
Wet Contact	Logic 0: 0 ~ 3 VDC Logic 1: 10 ~ 50 VDC
Type	Sink & Source
Frequency Input Range	0.1 ~ 3 kHz

Common Specifications

General

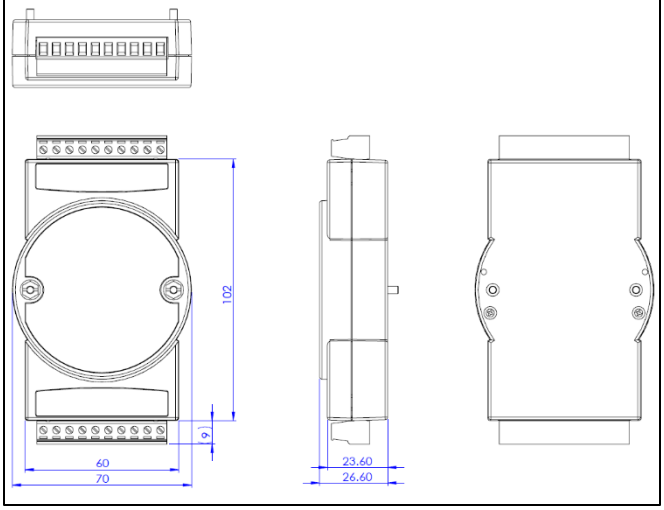
Power Input	Unregulated 10 ~ 30 VDC
Isolation Voltage	2,500 VDC

Environment

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

Dimensions

Unit: mm



Ordering Information

ADAM-4055-D	8DI/8DO Modbus RS-485 Remote I/O with PWM Output

All product specifications are subject to change without notice.

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