

4 digital inputs and 4 relay outputs with Modbus

AMB-4I-4O



## Features

- 4x 30V DC digital inputs
- 4x NO relay outputs
- Baud rate: 9600 - 128000
- Modbus addresses: 8 bit
- RX/TX and activity indicators
- Powered 8-36V DC or AC
- DIN rail mounting

The AMB-4I-4O input/output extender with Modbus RTU interface. It has 4 isolated digital inputs with voltage range up to 30VDC and 4 relay output with 5A 230V range and NO

contacts. The power supply range is 8 to 36V and accept DC or AC voltage. The use of DC / DC technology for supplying relays enables a wide range of supply voltages.

Description	Parameter
<b>Serial Interface</b>	
Interface Type	RS485
Data Rate	9600bps ~ 128000bps
Signals	A, B and GND
Data Length	8 bits
Parity	None
Stop Bits	1
Baudrate setting	4 way DIP switch
Address setting	8 way DIP switch
Connector	Screw connector, 28÷12AWG / 2.52mm
<b>Digital Inputs</b>	
Input number	× 4
Input type	Opto-isolated Opto-isolated 1kV
Configuration	Every input separate
V <sub>IN</sub> <sub>max</sub>	30V DC
Logic 1 Voltage range	3V to V <sub>IN</sub> <sub>max</sub>
Connector	Screw connector, 28÷12AWG / 2.52mm

<b>Digital outputs</b>	
Output number	× 4
Configuration	Potential free, relay NO (Omron)
Voltage and Load	3A 230V AC and 3A 30V DC
Connector type	Screw connector, 28÷12AWG / 2.52mm
<b>Indicators</b>	
Inputs indicators	× 4 3mm LED green
Outputs indicators	× 4 3mm LED yellow
RX/TX	× 2 3mm LED yellow/green
Power	× 1 3mm LED red
Activity	× 1 3mm LED blue
<b>Power supply</b>	
Supply voltage	8-30V DC or 8-14V AC
Power consumption	1.3W (all relay ON) 0.3W (relays off)
Connector type	Screw connector, 28÷12AWG / 2.52mm
<b>Physical Characteristics</b>	
Installation	DIN-Rail mounting
Housing	PVC

Physical Characteristics	
Dimensions (L×W×H)	80mm × 90mm × 50mm
Weight	110g
Environmental Specification	

Operating Temp.	-25 ~ 70°C (-13 ~ 158°F)
Storage Temp.	-40 ~ 85°C (-40 ~ 176°F)
Ambient RH	5% to 95% (non-condensing)

## Model selection chart

Sn.	Model	Description
1	AMB-4I-40	Default specification

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