

# TECHNICAL SPECIFICATION

## High Voltage 8 Input expander with Modbus

## AMB-8I-AC



### Features

- 8 × 60-500V DC/AC digital inputs
- Baud rate: 9600 – 128000
- Modbus addresses: 8 bit
- RX/TX and activity indicators
- Powered 8-36V DC or 8-24V AC
- DIN rail mounting

Digital input extender with high voltage range from 60V AC up to 500V AC to Modbus RTU. Input also support DC voltage in same voltage range. The power supply range is 8 to 36V and accept DC or AC voltage. For use in electrical street

lighting panels, road infrastructure panels, machine controllers, industrial machine and automation controllers, etc.

Description	Parameter
Serial Interface	
Interface Type	RS485
Data Rate	2400, 4800, 9600, 14400, 19200, 28800, 38400, 57600, 115200, 128000 bps
Signals	A, B and GND
Data Length	8 bits (1-255)
Parity	None
Stop Bits	1
Baudrate setting	4 way DIP switch
Address setting	8 way DIP switch
Connector	Screw connector, 28÷12AWG / 2.52mm
Digital Inputs	
Input number	× 8
Input type	Opto-isolated 1.5kV
Configuration	Every input separate
V <sub>INmax</sub>	500V AC or 500V DC
Logic 1 Voltage range	60V to V <sub>INmax</sub>
Connector	Screw connector, 28÷12AWG /

Description	Parameter
Digital Inputs	
	2.52mm
Indicators	
Inputs indicators	× 8 Ø 3mm LED green
RX/TX	× 2 Ø 3mm LED yellow/green
Power	× 1 Ø 3mm LED red
Activity	× 1 Ø 3mm LED blue
Power supply	
Supply voltage	8-36V DC or 8-24AC
Power consumption	Approx 1W
Connector type	Screw connector, 28÷12AWG / 2.52mm
Physical Characteristics	
Installation	DIN-Rail mounting
Housing	PVC
Dimensions (L×W×H)	80mm × 90mm × 50mm
Weight	100g
Environmental Specification	

Description	Parameter
Operating Temp.	10 ~ 75°C (-14 ~ 167°F)
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Ambient RH	5% to 95% (non-condensing)

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