TECHNICAL SPECIFICATION



8 input 4 output expander with Modbus and IEC-60870-5-101

AMB-8I-40



Features

- 8 × 5-30V DC isolated digital inputs
- 4 × NO relay outputs 5A
- Modbus RTU
- IEC-60870-5-1011
- Baud rate: 1200 921600
- · Modbus addresses: 8 bit
- RX/TX and activity indicators
- Powered 8-48V DC
- DIN rail mounting

The AMB-8I-4O input/output expander with Modbus RTU and IEC-60870-5-101 protocol support (under development). It has 8 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 48V DC. The use of DC / DC technology for supplying relays enables a wide range of supply voltages.

Description	Specification	
Serial Interface		
Interface Type	RS485	
Signals	A, B and GND	
Data Length	8 bits	
Parity	None, odd, even	
Stop Bits	1	
Setting	12 way DIP switch	
Connector	Screw connector, 28÷12AWG / 2.52mm	
Digital Inputs		
Input number	× 8	
Input type	Opto-isolated 3.7kV	

Description	Specification	
Configuration	Every input separate	
VIN _{max}	30V DC	
Logic 1 Voltage range	3V to VIN _{max}	
Connector	Screw connector, 28÷12AWG / 2.52mm	
Digital Outputs		
Output number	× 4	
Configuration	Potential free, relay NO	
Voltage and Load	3A 230V AC and 3A 30V DC	
Connector type	Screw connector, 28÷12AWG / 2.52mm	

¹ IEC-60870-5-101 is under development

Description	Specification	
Modbus RTU		
Data Rate	1200, 2400, 4800, 9600, 14400, 19200, 28800, 38400, 57600, 115200, 230400, 256000, 560800, 576000, 921600 bps	
Address	1-10, 10-250	
IEC-60870		
Data Rate	1200, 2400, 4800, 9600, 14400, 19200, 28800, 38400, 57600, 115200, 230400, 256000, 560800, 576000, 921600 bps	
Address	1-10, 10-90	
Balanced	Balanced/unbalanced	
System Functions Indicators		
Inputs indicators	× 8 3mm LED green	
Outputs indicators	× 4 3mm LED red	
RX/TX	× 2 3mm LED yellow/green	
Power	×13mm LED red	

Description	Specification	
Activity	×13mm LED blue	
Power Supply		
Voltage range	8-48V DC	
Consumption	0.2W without relay on	
Connector	Screw connector, 28÷12AWG / 2.52mm	
Protection	Reverse polarity, surge	
Physical Characteristics		
Installation	DIN-Rail mounting	
Housing	PVC	
Weight	125g	
Dimensions	100mm x 90mm x 50mm	
Environmental Specification		
Operating Temp.	-25 ~ 85°C (-13 ~ 158°F)	
Storage Temp.	-40 ~ 85°C (-40 ~ 176°F)	
Ambient RH	5% to 95% (non-condensing)	

Interface

For more details scan or click on QR code



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