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MR-AO4 Modbus module with analog outputs

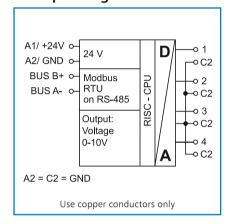
Part number 1108351302

2016-11-15

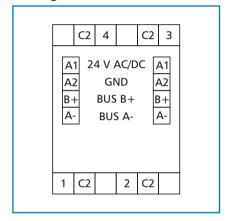
Illustrations



Principle diagram



Wiring



Product description

The Modbus module with 4 analog outputs was developed for decentralized switching tasks.

It is suitable as encoder for control variables, for example for electrical vent and mixing valves, valve positions, etc.

The outputs can be output by means of standard registers via a Modbus master.

Module address, bit rate and parity are set by means of two address switches on the front or by software.

Suitable for decentralized mounting on DIN TH35 rail according to IEC 60715 in electrical distribution cabinets.



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Technical data	
Approvals	T. Comments of the comment of the co
C-UL Certification	Open Energy Management Equipment 34TZ
Modbus interface	
Protocol	Modbus RTU
Address range	00 to 99
Transmission rate	1200 to 115200 bit/s,
	factory setting 19200 bit/s Even
Bus interface	RS485 two wire bus
	with potential equalization in bus or line topology
	terminate with 120 Ohm
Supply	
Operating voltage	24 V AC/DC ± 10 % (SELV)
Current consumption	50 mA (AC) / 20 mA (DC)
Relative duty cycle	100 %
Output	
Analog outputs	4
Voltage output	4x 0 to 10 V DC
Output current	5 mA to 10 V DC
Resolution	0.625 mV / Digit
Error	100 mV
Housing	
Dimensions WxHxD	1.378 x 2.728 x 2.362 in. (35 x 69.3 x 60 mm)
Weight	72 g
Mounting position	any
Mounting	on TH35 rail per IEC 60715
Side-by-side mounting	Without space
	The maximum quantity of Modbus modules connected side-by-side i
	limited to 15 or to a maximum power consumption of 2 Amps
	(AC or DC) per connection to the power supply. For any similar block
	of additional modules a separate connection to the power supply is
	necessary
Material	
Housing	polyamide 6.6 V0
Terminal blocks	polyamide 6.6 V0
Cover plate	polycarbonate
Type of protection (IEC 60529)	IDAO
Housing Terminal blocks	IP40
Terminal DIOCKS	IP20





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Technical data		
Terminal blocks		
Supply and bus		
Terminal block	4-pole	
Solid wire	max. AWG 16 (1.5 mm²)	
Stranded wire	max. AWG 18 (1.0 mm²)	
Wire diameter	0.3 mm to max. 1.4 mm	
Module connection, analog outputs		
Solid wire	max. AWG 12 (4 mm²)	
Stranded wire	max. AWG 14 (2.5 mm²)	
Wire diameter	0.3 mm to max. 2.7 mm	
Protective circuitry	Polarity reversal protection of operating voltage	
	Polarity reversal protection of supply and bus	
Temperature range		
Operation	23 °F to 131 °F (-5 °C to +55 °C)	
Storage	-4 °F to +158 °F (-20 °C to +70 °C)	
Display		
Operating and bus activity	green LED	
Error indication	red LED	
Additional documents		
Software description,	All additional documents are available for download at	
mounting note, certificates	www.metz-connect.com	
		首形殊
mounting note, certificates	www.metz-connect.com	

Additional documentation see www.metz-connect.com



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Dimensional drawing

