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**Data sheet** MR-AOP4 Modbus module with analog outputs Page 1/4

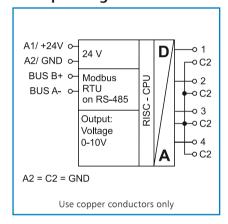
Part number 1108371302

2016-11-15

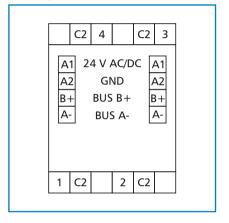
#### Illustrations



### 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. Each output can be set for automatic or manual operation by means of 4 potentiometers on the front.

Additional documentation see www.metz-connect.com

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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Page 2/4 Part number 1108371302

2016-11-15

Approvals		
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 %	
Outputs		
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)	
Depth including potentiometers	2.520 in. (64 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)	ID40	
Housing Terminal blocks	IP40 IP20	
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We realize ideas

**Data sheet** MR-AOP4 Modbus module with analog outputs

Page 3/4 Part number 1108371302

2016-11-15

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	
Inputs, module connection		
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 bust du 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	同语绘画
mounting note, certificates	www.metz-connect.com	



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Page 4/4 Part number 1108371302

2016-11-15

### **Dimensional drawing**

