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Data sheet MR-DO4 Modbus module with digital outputs

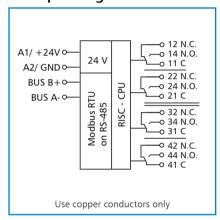
Part number 1108361321

2016-07-18

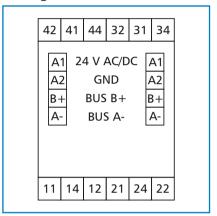
Illustrations



Principle diagram



Wiring



Product description

The Modbus module with 4 digital outputs was developed for decentralized switching tasks. It is suitable for switching electrical components, such as motors, contactors, lamps, louvers, etc.

With strong inductive loads, we recommend protecting the relay contacts additionally with an RC element. The module is provided with a manual control for manually switching the relays.

The outputs can be switched 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		
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	200 mA (AC) / 70 mA (DC)	
Relative duty cycle	100 %	
Outputs		
Digital outputs	4x changeover contacts (4 DPST)	
Switching voltage max.	250 V AC	
Continuous current max.	5 A per relay	
Total current for all contacts	12 A	
Switching frequency	360 switching cycles per hour	
General informations		
Rated insulation voltage	230/400 V AC	
Overvoltage category	III	II
Pollution degree	2	2
Rated surge voltage	4 kV	2.5 kV
Type of insulation	basic insulation	reinforced insulation



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Housing		
Dimensions WxHxD	1.378 x 2.728 x 2.362 in. (35 x 69.3 x 60 mm)	
Depth including switches	2.717 in. (69 mm)	
Weight	95 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 is	
	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	Hecessary	
Housing	polyamide 6.6 V0	
Terminal blocks	polyamide 6.6 V0	
Cover plate	polycarbonate	
Type of protection (IEC 60529)	polyeumonate	
Housing	IP40	
Terminal blocks	IP20	
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, digital 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 5	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	
Status of the outputs	yellow LEDs	
•		
Additional documents	All additional day works are 2000 for the first	
Software description,	All additional documents are available for download at	
mounting note, certificates	www.metz-connect.com	









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Dimensional drawing

