



# MB1000 MODULE

## MODBUS DIGITAL OUTPUT EXPANSION MODULE

### PRODUCT DEFINATION

The MB1000 Controller is network centric, and high-performance Digital Outputs Controller to accommodate general and specific applications, featuring Modbus RS-485.

### FEATURES

#### High Speed Modbus RTU communication

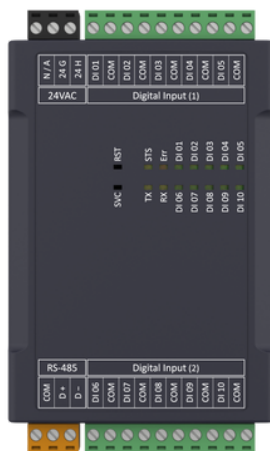
Supports multiple serial communication (RS-485) speed selection from 9.6kbps to 115.2kbps.

#### Varies Input Type

Operational activity on each individual channel of DOs are conveniently indicated by LED, so as the Power, Operation and Communication.

#### Ease Communication

With Modbus RTU standard protocols, These IO modules configure as slaves will be easy to communicate with Modbus master such as SCADA/PLC/HMI.



MB1000

### TECHNICAL SPECIFICATION

#### Digital Output:

- 10 Channels
- Type: Relay Contacts, SPST NO, Pilot Duty
  - Max Rating: 5A, 250VAC/30VDC
  - Life expectancy Electrical: 200,000

#### Communication:

Physical Interface:

- EIA-485 Standard (Bus A, B) two-wire
- Half Duplex
- Data Bit: 8 bits
- Application Protocol:
  - o Modbus Slave
    - Baud Rate Speed: 9.6k, 19.2k, 38.4k, 57.6k, 115.2k bit/s
- Multi-drop Capability: Yes (Hardware ID Setting)
- Integrated termination resistor, enable through Modbus register

#### Status Indicator:

- Power Status LED
- Operation Status LED
- Communication Status LED
- Digital Output Status LEDs

#### Supply Connection & Environmental Limits

- Power Supply: 24VAC  $\pm$  5% or 24 VDC  $\pm$  5%
- Consumption: 150mA max
- Operating Temperature: 32° to 150° F (0° to 65° C)
- Storage Temperature: -4° to 150° F (-20° to 65° C)
- Operating Humidity: 10% to 95% HR (non-condensed)

#### Mechanical

- Dimension: 132mm (L) x 80mm (W) x 38mm (H)
- Material: ABS



[sales@matrix-controls.net](mailto:sales@matrix-controls.net)



[www.matrix-controls.net](http://www.matrix-controls.net)