

Your vision, automated



MCOM302IO

INDUSTRIAL INPUT OUTPUT MODULE



The MCOM302IO Series is designed for industrial input and output applications. It features 4 analog inputs, 4 digital inputs, and 2 digital outputs. The available I/O channels are highly flexible and suitable for a wide range of applications. Furthermore, it supports RS485 communication, making it ideal for various remote I/O applications. The MCOM302IO provides 4 channels of digital input, 2 channels of digital output, and 4 channels of 12-bit analog input supporting ± 10 V, ± 5 V, 0–10 V, 0–5 V, and 4–20 mA signals, with each channel featuring photocoupled isolation. The module supports source-type output and sink-type input, and it communicates using the RS485 Modbus RTU protocol as a slave device.

➤ FEATURES

- Source-type Digital Outputs
- Sink-type Digital Inputs
- Photocoupler Isolation
- Single-ended for Analog input.
- Resolution: 12 bit for Analog input
- Voltage Inputs and Current Inputs
- Watchdog
- DIP Switch for device configuration
- Cost-effective
- Wide Operating Temperature Range: $-25\text{ }^{\circ}\text{C} \sim +75\text{ }^{\circ}\text{C}$

➤ APPLICATIONS

- Industrial Automation
- Industrial Machinery
- Building Automation
- Food and Beverage Systems
- Semiconductor Fabrication
- Control Systems

➤ INPUT OUTPUT SPECIFICATION

Digital Input		
Input Channels	4	
Type	Wet Contact (Sink)	
On Voltage Level	+12.0 VDC ~ 30 VDC	
Off Voltage Level	+11 V max.	
Input Impedance	10 K Ω , 0.66 W	
Digital Output		
Output Channels	2	
Type	Open Collector (Source)	
Max. Load Current	500 mA/channel	
Load Voltage	+12 VDC ~ +30 VDC	
Analog Input		
Input Channels	4	
Type	0 ~ 500 mV/ 0 ~ 1 V/ 0 ~ 2.5 V/ 0 ~ 5 V/ 0 ~ 10 V/ 0 ~ 20 mA/ 4 ~ 20 mA	
Resolution	12 – bit	
Sampling rate	100 Hz total	
Accuracy	+/- 0.1%	
Zero drift	+/- 20 μ V/ $^{\circ}$ C	
Span drift	+/- 25 ppm/ $^{\circ}$ C	
Input Impedance	Voltage	10 M Ω
	Current	100 Ω
Overvoltage protection	120 VDC	
Open wire detection for 4 ~ 20mA	Yes	

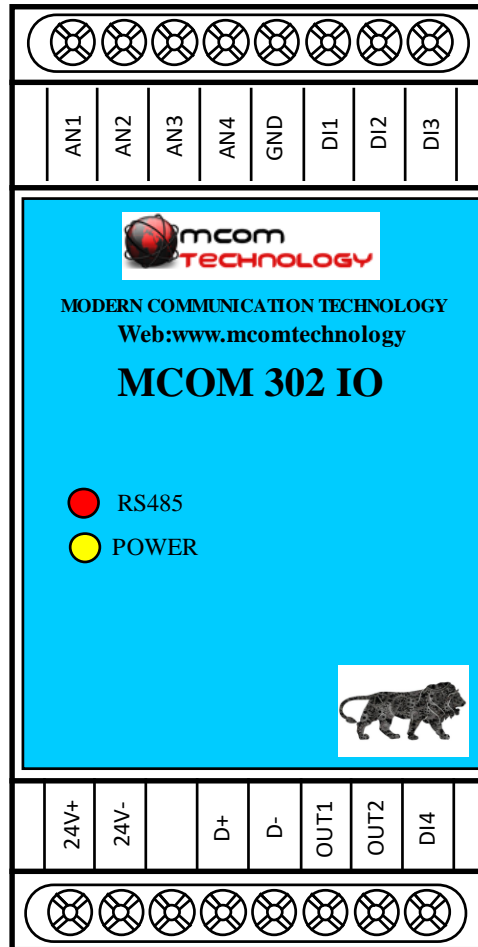
➤ SYSTEM SPECIFICATIONS

COMMUNICATION	
Interface	RS-485
Format	(N, 8, 1)
Baud Rate	1200 ~ 115200 bps
Protocol	Modbus/RTU
Watchdog	Yes
POWER REQUIREMENTS	
Reverse Polarity Protection	Yes
Powered from Terminal Block	Yes, 12 ~ 30 VDC
Consumption	0.5 W Max.
ENVIRONMENT	
Operating Temperature	-25 °C ~ +75 °C
Storage Temperature	-30 °C ~ +75 °C
Humidity	10 ~ 95% RH, Non-condensing

➤ DIGITAL INPUT

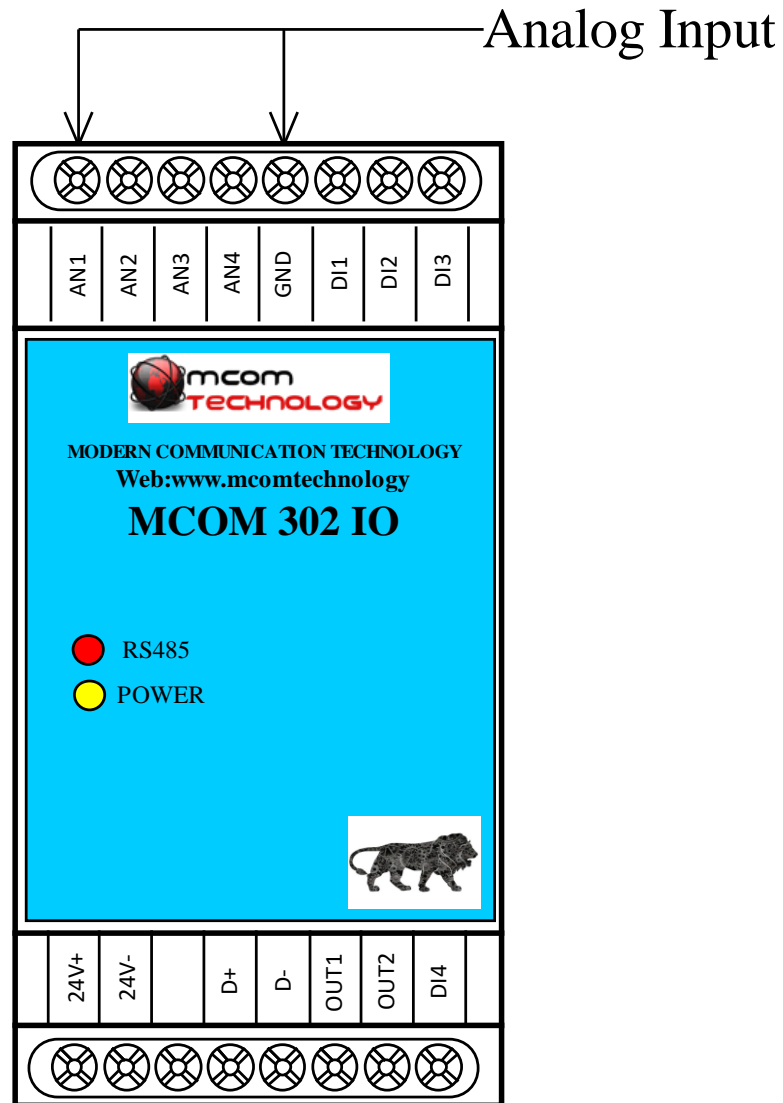


➤ DIGITAL OUTPUT



Digital Output

➤ ANALOG INPUT



➤ POWER & RS485

