

4-Channel Discrete Input RS485 I/O Module

This 4-channel discrete input module provides isolation between each channel of inputs, power, and network circuits. It supports the industry-standard RS-485 Modbus RTU protocol for network communication and both AC and DC power sources.



Overview

M240 Remote I/O Module

The M240 is a high-performance 4-channel discrete input module designed for reliable signal conditioning in industrial automation. It features robust six-way isolation to eliminate ground loops between power, input, and network circuitry, ensuring signal integrity in harsh environments. Supporting the industry-standard Modbus RTU protocol via RS-485, this hot-swappable module integrates seamlessly into remote I/O data acquisition systems.

Communication & Protocol

Communication Protocol	RS485 / Modbus RTU
Baud Rate	115200, 38400, 19200, 4800
Max Nodes	64 nodes

Technical Specifications

Input Channels	4
Input Signal Type	Discrete
Response Time	10 mS
Power Supply	24VDC \pm 10% or AC
Power Consumption	1.5 W

Environmental & Safety

Isolation Voltage

1500 VAV
6-way Isolation

Operating Temperature	-10 to 70°C
Relative Humidity	5-95% non-condensing
EMC Standards	EN1326:1997, A1:1998, A2:2001, A3:2003

Physical Characteristics

Protection Rating

IP50 (Casing) • IP20 (Terminal)

Terminal Specifications

- Removable plug-in type
- Rated 12A/250V
- AWG #26-12 wire support

Weight

128 g