



# W-M1B301/302

## 16 / 32 Channels Isolation Digital Input Module



### Features

- Support Dry and Wet contact
- Latch Value Read
- Over-Voltage Protection
- Communication Protocol: Modbus RTU



### Introduction

W-M1B301 is a 16-channel digital input module built with 2500 Vrms optical isolation. It accepts 10~50V input voltage to fit various digital signals, such as 12 VDC, 24 VDC, and 48 VDC. For more numerous channels, the 32-channel of W-M1B302 is enough to satisfy users' requirement.

#### Digital Input

Dry Contact	Logic Level 0 : Open Logic Level 1 : Close to GND
Wet Contact	Logic Level 0 : +3 V (Max.) Logic Level 1 : 10 to 50V
Input Impedance	10 K $\Omega$
Isolation	2500 Vrms
Over-Voltage Protection	70 VDC
Frequency Input Range	100 Hz (16 bit)
Latch Value Read	Yes

#### General

Interface	RS-485
Power Consumption	1.6W @ 24 VDC (W-M1B301) 2.4W @ 24 VDC (W-M1B302)
Power Requirement	10 ~ 60 VDC
Watchdog Timer	System (1.6 Second Fixed)
Intra-Module Isolation, Field-to-Logic	2500 VDC

#### Communication

Protocol:	Modbus RTU
Speed	From 1200-115.2k bps
Distance	1.2 km at 9.6 kbps

#### Environmental

Operating Temp.	-25 ~ 70 °C
Storage Temp.	-30 ~ 75°C
Operating Relative Humidity	10% to 90% (non-condensing)

#### Dimension

LED Indicators	PWR, Comm, Program, Status
Weight	65g (Average)
Dimensions	472 x 121 x 120mm

#### Ordering Information

W-M1B301	16-ch Isolated Digital Input Module
W-M1B302	32-ch Isolated Digital Input Module

