

# W-M1B301 / W-M1B302

16 / 32 Channels Isolation Digital Input Module



## Main 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.

## Specification

Model Name	W-M1B301 (16 Channels)	W-M1B302 (32 Channels)
<b><u>Digital Input</u></b>		
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 KΩ	
Isolation	2500 Vrms	
Over-Voltage Protection	70 VDC	
Frequency Input Range	100 Hz (16 bit)	
Latch Value Read	Yes	
<b><u>General</u></b>		
Interface	RS-485	
Communication Protocol	Modbus RTU	
Communication Speed	From 1200 to 115.2k bps	
Communication Distance	1.2 km at 9.6 kbps	
Power Consumption	1.6W @ 24 VDC	2.4W @ 24 VDC
Power Requirement	10 - 60 VDC	
Temperature	-25 to +70 °C (Operating) -30 to +75 °C (Storage)	
Humidity	Operating Relative Humidity: 10% to 90% (non-condensing)	
LED Indicators	PWR, Comm, Program, Status	
Watchdog Timer	System (1.6 Second Fixed)	
Intra-Module Isolation, Field-to-Logic	2500 VDC	
<b><u>Dimension</u></b>		
Weight: 65g (Average) Dimension: 472mm x 121mm x 120mm		
<b><u>Ordering Information</u></b>		
W-M1B301 16-ch Isolated Digital Input Module		
W-M1B302 32-ch Isolated Digital Input Module		