

## MASIBUS MINT MDI-16

### Digital Inputs and Counters

#### Description

MINT MDI-16 module is a 16 channel digital input module. The inputs are isolated from the logic by bi-directional Opto-couplers. The common is connected internally either to the -volts or + volts. The inputs have internal counters associated with them. These counters are 32 bit Counters allowing a count value from 0 to 4294967295. The count value can be cleared by writing a zero to the associated registers or preset to any other value using the same method.



#### Features

- 16 digital inputs with counters
- Individual De-bounce and chatter filters
- 32 Bit Up/Down counters
- 2 x MODBUS RTU
- Compact DIN rail enclosures.
- Up to 127 Modules on RS485 network.
- 1500V RMS Isolation
- LEDs for Fault, Communication and Power

#### Applications

- Cost effective Field Interface to PLC/DCS
- Oil Explorations
- Energy Audits and Distribution
- SCADA
- Water Treatment
- Building Automation
- Environment Monitoring
- Access Control & Security

## Technical Specification

### Communication

Interface	2 Wire, EIA RS485
Protocol	Modbus – RTU
Available Ports	2 x RS485 Multi-drop Serial Communication
Baud Rate	9600, 19200, 38400, 57600, 115200

### Status Indication

LEDs	Power, Module Status, Communication, Channel Status
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### Input Specification

Input points	16
Maximum Input Voltage	36 Vdc
Input Current	11mA @ 24Vdc
Turn ON Voltage	15-24Vdc
Turn OFF Voltage	0-8Vdc
Minimum Input Pulse Width	500 $\mu$ s
Frequency Counter	1 KHz Max
Filter time (ms)	User Defined
De-bounce Time (ms)	User Defined
Chatter Filter Time	User Defined
Chatter Filter Counts	User Defined

### Power

Voltage	24VDC $\pm$ 10%
Current	50mA max
Power Consumption	< 2W

### Isolation

Channel to System	1500 VAC RMS
Supply to RS485	1500 VAC RMS
Supply to Logic	1500 VAC RMS

### Environmental

Operating Temperature	0 to 55 °C
Storage Temperature	-10 to 70 °C
Humidity	30 to 95% RH non- condensing

### Physical

Dimensions	22.5(W) x 101(H) x 120(D) mm
Mounting	DIN Rail
Weight	160 gms approx.
Enclosure Material	Molded ABS

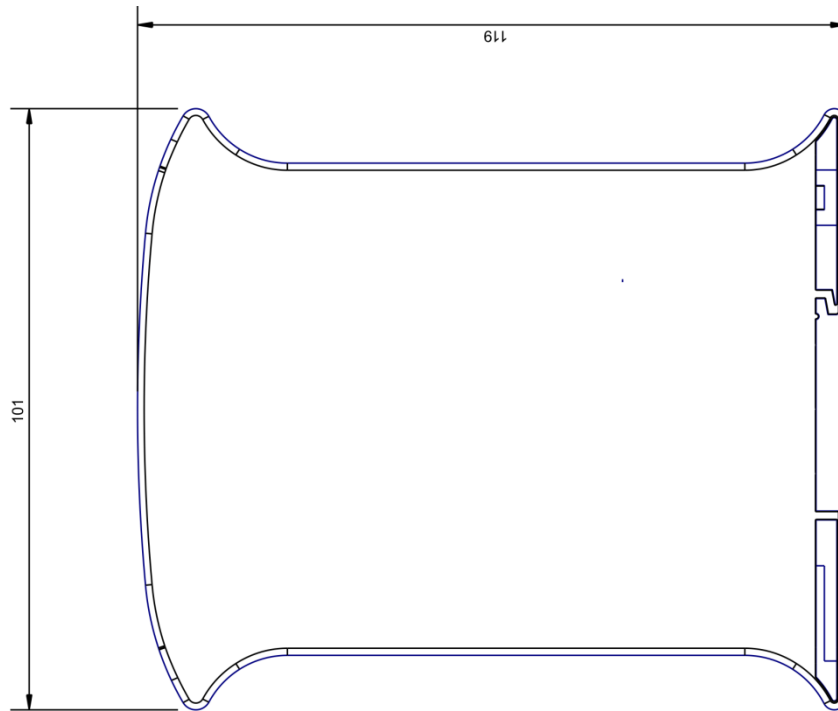


Figure 1: Physical Dimensions (mm)

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