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8 Analog Input 4 Digital Input MODBUS RS485 Remote I/O

This converter module converts the digital and analog input data from various controller and device.

It Provides RS485 interface supporting Modbus RTU Protocol

It supports half-duplex communication with two wires needed for transmit and receive data from legacy devices

Key Features at a glance:

Modbus over RS485 — Modbus RTU through RS485

Compact Din Rail Mounting

Rugged Durability With 8 Analog Input 4 Digital Input

Comprehensive Safety And Reliability

Personal Support for your Implementation

Application Areas:

Smart Irrigation

Industrial Automation

Smart Car Parking

Smart Logistics

Utility Management

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Specifications	
Input Power	**Unregulated 9 – 24 VDC**
Power Consumption	**Less than 1 W @ 12 VDC**
Protections	**Reverse Polarity, Overvoltage (+/- 35 VDC), Short Circuit, Transient Voltage, TVS/ESD**
Indication	**Power (Red), Status (Green)**
Connector	**5mm pitch screw terminal blocks**
Enclosure	**ABS Enclosure**
Installation Type	**Plug and Play**
Dimensions	**Modular Architecture (145mm x 90mm x 40mm)**
Warranty	**12 Months from date of installation or 18 Months from date of delivery (whichever is earlier)***

Data Connectivity	
Connectivity Supported	**RS485**
Protocol Supported	**Modbus RTU**
Communication Interface	**2 Wire Type**
Watchdog Timer	**System (5 Sec) and Communication**
Indication	**Green for Communication Status**

Analog Input	
Channels	**8**
Contact Rating	**4-20mA with 12 bit SAR ADC (Transient Protected) (80 dB CMRR)**
Standard	**Single ended 12 bit ADC**

Digital Input	
Channels	**4**
Contact Rating	**24 VDC Sink/source (isolated) Up to 5000 VRMS for 1 minute**
Standard	**Digital Isolator type IEC 60950**

Environment	
Operating Temperature	**0 to 65°C**
Storage Temperature	**-10 to 70°C**
Operating Humidity	**5 – 95% RH (non-condensing)**

Mounting	
Built Architecture	**Modular**
Mounting	**DIN Rail Mountable, Wall Mountable, Stack Mountable**
Installation	**Plug and Play Device**

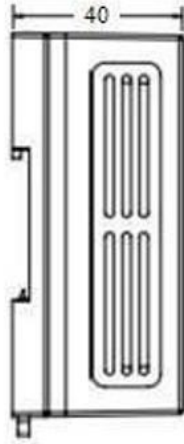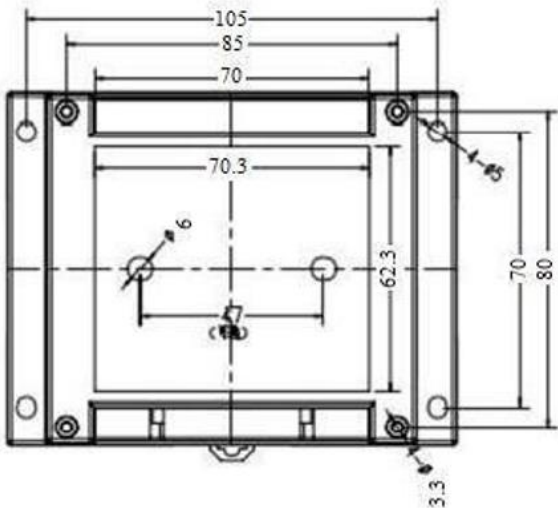| ORDERING INFORMATION	
Product Name	**Product Code**
8AI 4DI Modbus RS485 Remote I/O	**CM8A4D0R**

MODBUS ADDRESS FOR FUNCTION CODE 0x04 Read Input registers	
ADDRESS (8AI)	**Input Channel**
4000	Analog Input 1
⋮	⋮
4007	Analog Input 8

MODBUS ADDRESS FOR FUNCTION CODE 0x02 Read Discrete Inputs	
ADDRESS (4DI)	**Input Channel**
1000	Digital Input 1
⋮	⋮
1003	Digital Input 4

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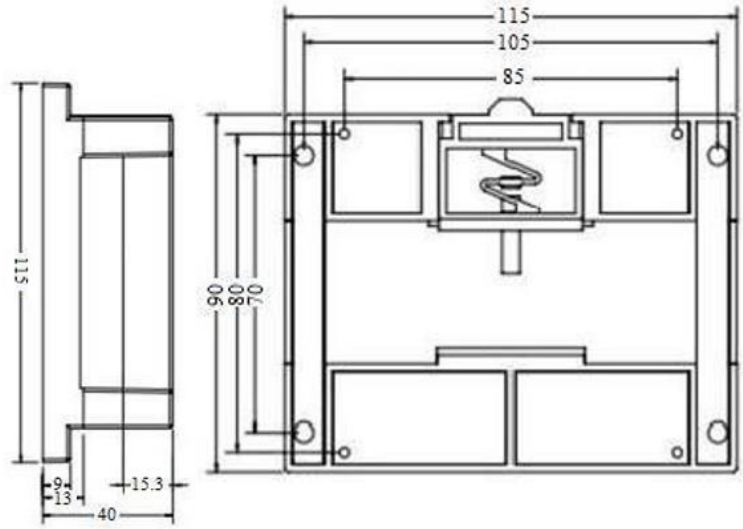
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WHY CHOOSE US

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We provide the support from our expert team for the installation and implementation

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Do you have any questions?

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