

CN-8031 Modbus TCP Network Adapter

1 Module Overview

CN-8031 Modbus TCP Network Adapter supports the standard Modbus TCP Server Communication, and Ethernet supports the cascade function of dual-port switches. This adapter supports access to 5 Modbus TCP clients simultaneously, supports Modbus function code 01/02/03/04/05/06/15/16/23, supports the Modbus application of watchdog, supports the process data maximum sum of input and output of 8192 bytes, and supports number of the extension IO module of 32. Module carries with the diagnostic function and it can monitor the communication state of IO module in real time.

2 Technical Parameters

Hardware Specification	
System Power	Nominal:24VDC, Range: 20-30VDC Current: Max.2A@24VDC Protection: Reverse Protection, Overcurrent Protection
Power Consumption	50mA@24VDC
Internal BUS Supply Current	Max.2.5A@5VDC
Isolation	System Power to Field Power Isolation
Field Power	Nominal:24VDC, Range:20.4-28.8VDC
Field Power Current	Max. DC 8A
IO Modules Supported	32 pcs
Wiring	Max.: AWG 18 Min.: AWG 24
Installation	35mm DIN-Rail
Size	115*51.5*75mm
Weight	130g
Environment Specification	
Operating Temperature of Horizontal Installation	-35°C~70°C
Operating Temperature of Vertical Installation	-35°C~60°C
Relative Humidity	< 95%RH (No Condensation)
Storage Temperature	-40°C~85°C
Storage Humidity	< 95%RH (No Condensation)
Manufacturing Test Temperature	-40°C~75°C
Ingress Protection Rating	IP20
Communication Interface Specification	
Protocol	Modbus-TCP
Process Data Area	Sum of input and output:8192 Byte
Diagnostic Function	YES
Number of TCP	5 Clients
TCP Keepalive	YES
Modbus Watchdog	YES (Default: Enable, 30 Seconds)
Function Code	01/02/03/04/05/06/15/16/23
Network Interface	2*RJ45
Speed	10/100Mbps, MDI/MIDX, Full-Duplex
Distance	100m
IP Address	DIP switch set or set by IO-Config software



THERE IS A RISK OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH.

Disconnect all devices from power, including connected devices, before removing any covers, or installing or removing any accessories, hardware, cables, or wires, except in specific circumstances specified in the appropriate hardware guidelines for this device.

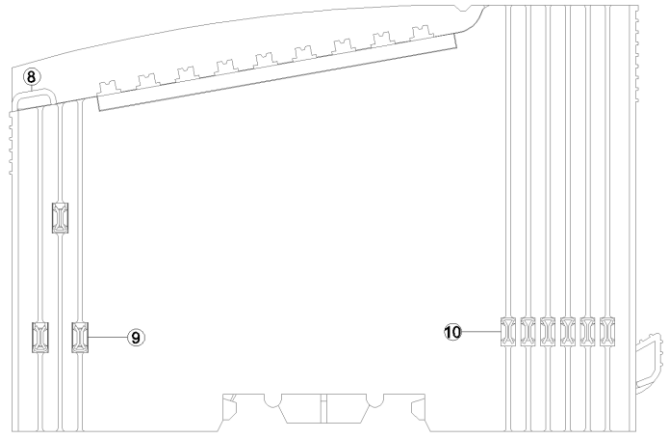
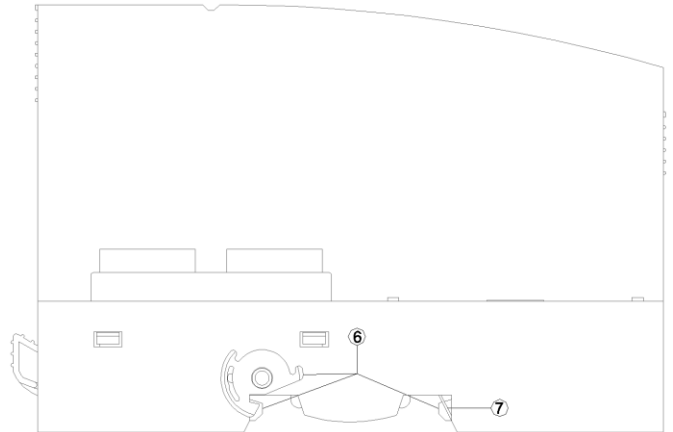
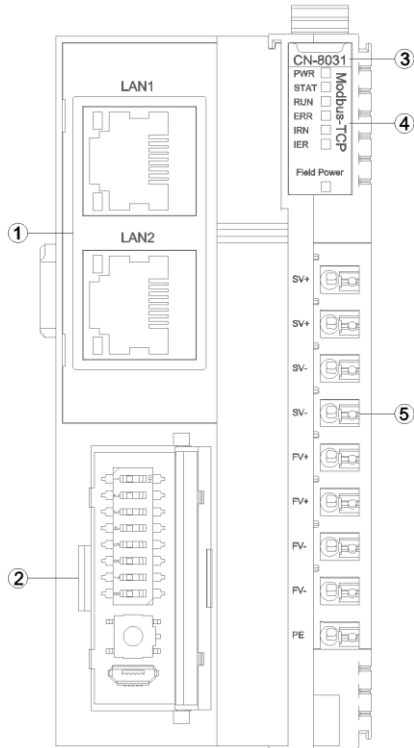
Always use a voltage sensing device with an appropriate rating to detect a power outage at the appropriate place and time, as instructed.

Replace and tighten all covers, accessories, hardware, cables, and wires, and confirm that the ground connection is correct before powering on the device.

When operating this equipment and related products, the specified voltage must be used.

Failure to follow instructions specified by the manufacturer may result in serious consequences such as death, personal injury, or damage to equipment since the protection provided by the equipment may be impaired.

3 Hardware Interface



- ① Network Interface
- ② Config Interface
- ③ Module Type
- ④ LED Indicator
- ⑤ Wiring Terminal
- ⑥ Buckle
- ⑦ Grounding Spring Sheet
- ⑧ Fixed Wiring Harness
- ⑨ Field Power
- ⑩ Internal Bus