NETWORK I/O RELAY CONTROLLER

TCM-N5208C

8 Channel Network I/O Controller

8 inputs and 8 relay outputs, controlled over LAN, RS485 or cloud.



8 DI	8 DO	Ethernet	RS485	Protocol	Cloud
NPN / PNP	10 A relay	10/100M RJ45	Modbus RTU	URL API · MQTT	App · Web

DESCRIPTION

The TCM-N5208C is an industrial network I/O controller with 8 optically isolated digital inputs and 8 relay outputs rated 10 A, controlled over Ethernet or RS485. It supports Modbus TCP, Modbus RTU, ASCII and a custom command protocol, so it connects directly to PLCs, SCADA, building management and security systems, and it can be operated remotely from the cloud platform through a mobile app or web browser. Built-in timers, delay-off, automatic reporting and local input-to-output linkage let it run simple control logic on its own, while the DIN-rail housing and −40 °C to +85 °C rating suit control cabinets in harsh environments.

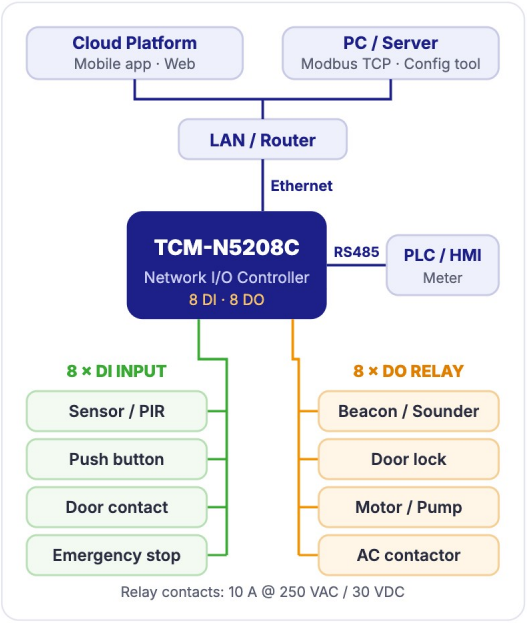
FEATURE

- 8 DI (NPN/PNP) + 8 relay outputs, 10 A
- Ethernet 10/100M and RS485 interfaces
- Modbus TCP / RTU, ASCII, MQTT, HTTP API
- Cloud remote control via mobile app & web
- 8 timers, delay-off, auto-report on input change
- Local DI → DO linkage, dual-unit interlock
- DIN rail, −40 to +85 °C, EFT/ESD protected

SPECIFICATION

MODEL	TCM-N5208C
Digital Input	8 × DI, NPN / PNP compatible, optically isolated
Relay Output	8 × relay, 10 A @ 250 VAC / 30 VDC
Relay Life	≥ 10 M mechanical, 100,000 electrical
Ethernet	1 × RJ45, 10/100 Mbps
Serial Port	1 × RS485 (A / B)
Protocols	URL HTTP API, MQTT, Modbus TCP / RTU, ASCII
Network Mode	TCP server / client, cloud heartbeat
Default Setting	IP 192.168.1.253, device address 1
Remote Control	Cloud, mobile app, web, PC software
Special Functions	Delay-off, 8 timers, auto-report, linkage
Virtual COM	Windows virtual COM port driver
Configuration	PC parameter setup & configuration tool
Power	12 VDC (DC jack or terminal)
EMS Protection	EFT ±4 kV, ESD ±8 kV (contact)
Operating Temp.	−40 °C to +85 °C
Storage Temp.	−40 °C to +105 °C
Installation	DIN rail mounting
Dimension	145 × 90 × 40 mm
Net Weight	650 g

APPLICATION



Sensors and buttons feed the 8 inputs; the 8 relays switch lights, alarms, locks and motors. Control comes from the cloud, a PC or a PLC.

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