

TC-100 Series

Industrial Protocol Converter

The TC-100 Series Industrial Protocol Converter is a compact protocol conversion device developed by Tespro for industrial automation, building automation, energy management, and IoT device integration scenarios.

The series is designed for different protocol conversion requirements and can be configured into multiple versions, such as BACnet to Modbus, OPC UA to Modbus, and other protocol conversion models. It supports protocol parsing, data mapping, format conversion, and stable communication between field devices, controllers, SCADA systems, BMS platforms, and cloud platforms.



Reliable Connectivity



Industrial Grade Design

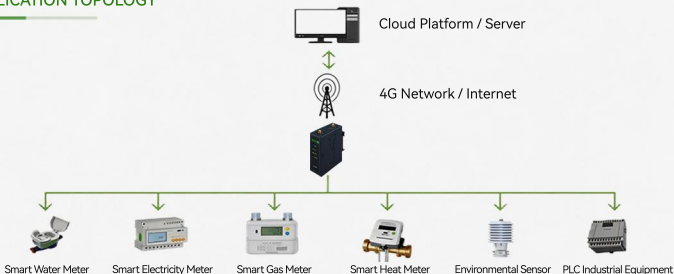


Network Communication



Easy Deployment

APPLICATION TOPOLOGY



Tespro Electronics Co., Ltd.

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We have offices in multiple countries: China, US, UK, AUS, HK. If you encounter an agent, please contact us first to confirm.

FEATURES



Stable Protocol Processing

Industrial-grade CPU for stable protocol parsing and real-time data processing.



Multiple Interfaces

Supports WAN/LAN and RS485/RS232/CAN optional interfaces for flexible device integration.



Industrial Design

Rugged, compact and durable for harsh industrial environments.



Wide Protocol Compatibility

Supports BACnet/IP, BACnet MS/TP, Modbus TCP/RTU and OPC UA for multi-protocol communication.



Easy Integration

Seamless integration with SCADA, BMS, cloud platforms and field devices.



Secure & Reliable

Built-in SSL encryption and reliable transmission for secure data communication.



APPLICATIONS SCENARIOS



Smart Water



Smart Electricity



Smart Gas



Smart Heat



Environmental Monitoring



Industrial Control

Power Supply	12~36V DC	Wireless / Bands	2G / 3G / 4G / 5G
Indicators	Power / Network / Communication / WiFi	Network Protocols	TCP / UDP / MQTT
Reference Size	41 × 95 × 103 mm	Protocols	BACnet/IP, BACnet/MS/TP, Modbus TCP, Modbus RTU, OPC UA
Serial Ports	RS485 / RS232 / CAN (Optional)	Work Modes	Protocol conversion mode, TCP client, UDP client, MQTT client
Baud Rate	300~115200 bps	Functions	BACnet to Modbus, OPC UA to Modbus, customizable protocol conversion, transparent transmission, SSL encryption
SIM Card	External SIM, standard card	Environmental	Operating temp -40 to +75°C; storage temp -20 to +80°C; humidity 10%~95% non-condensing
Antennas	1 × 4G SMA external antenna, 1 × WiFi SMA external antenna	Protection	reverse connection protection, overcurrent / surge protection, lightning protection
Interfaces	1 × WAN, 1 × LAN, DC power socket, reload button		



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