

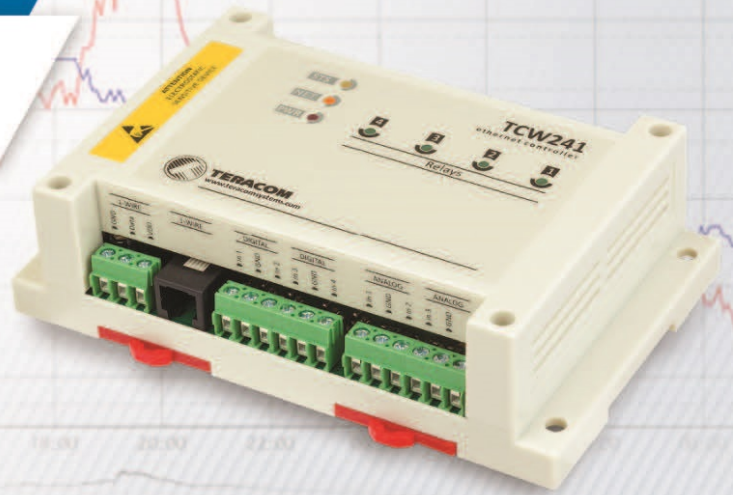


control solutions

**TERACOM**

# TCW241

## Ethernet I/O module



### Overview

TCW241 is an Ethernet I/O module. It provides four digital “dry contact” inputs and four analog 0-60V inputs, with 10-bit resolution. The controller supports up to 8 TERACOM 1-Wire sensors for temperature, humidity, carbon dioxide, 0/20mA, AC/DC current, etc.

The Ethernet I/O module has 4 relays with normally open and normally closed contacts.

TCW241 has real-time clock (RTC) with time server synchronization (NTP) for advanced relay schedule.

The relays of Ethernet I/O module can be activated either remotely or locally. So-called remote activation includes WEB interface or M2M protocols – MODBUS TCP/IP, SNMP, and HTTP API.

The local activation is possible from schedule, status of a single parameter or by custom made functions. The custom

### Applications

- Server room monitoring - The device can monitor AC power supply, smoke concentration, door opening, battery voltage, room temperature, and control the cooling system.
- M2M systems - The device can send periodically information to a dedicated server and execute its commands.
- Scheduled control - The device can be used for one-time or repetitive (weekly) tasks to turn on/off relays at previous set times.
- Environmental monitoring – The device can monitor temperature, humidity, barometric pressure, CO<sub>2</sub> etc.
- HVAC systems – with 4 relays, schedule, and custom made functions the device is the right choice for climate control.

### Interfaces



100 Mbit  
Ethernet



4x  
Digital Inputs



0-60V  
4x  
Analog Inputs



4x  
Relay Outputs



8x  
1-Wire Sensors

### Basic features

- WEB server for simple configuration and control;
- Multiplier and offset for analog inputs and some sensors;
- MODBUS TCP/IP support;
- SNMP v2 support with trap alerts;
- HTTP Post service with API commands;
- XML/JSON status report files;
- Dynamic DNS support;
- Scheduled control;
- Custom functions.



Measurement and data acquisition solutions

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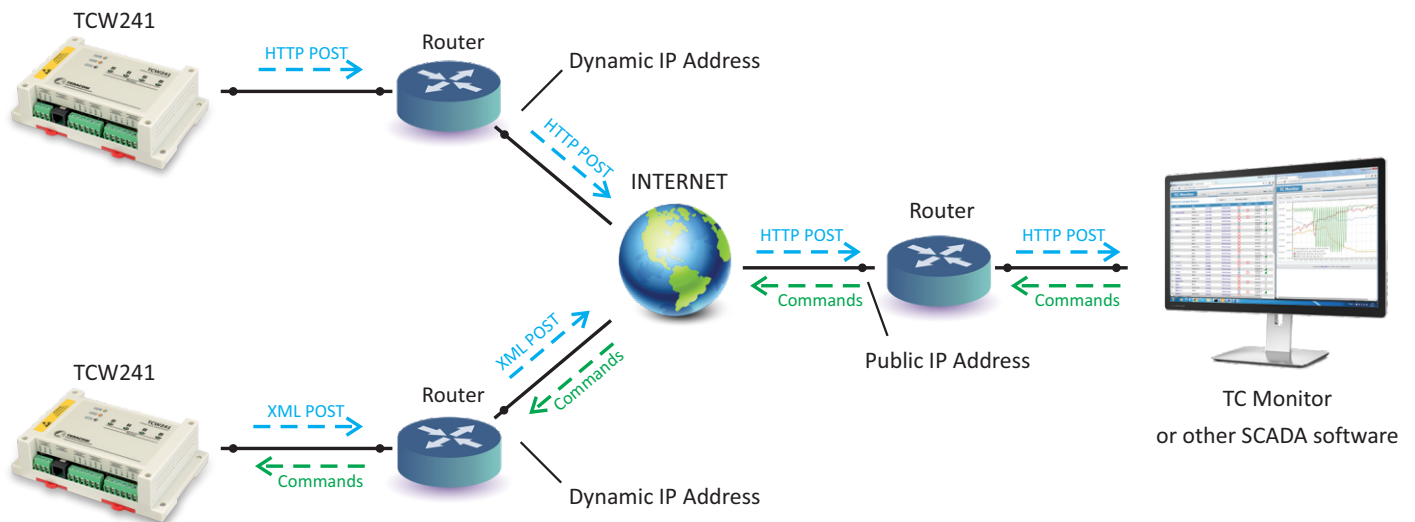
**TERACOM**

## TCW241 - Ethernet I/O module

### Short specification

Supply voltage, VDC	10 - 28
Maximum current (with all relays ON), mA	350@12VDC
Weight, g	230
Dimensions, mm	145 x 90 x 40
Operating temperature range, °C	-20 to +55
Operating relative humidity range, %RH	5 to 85 (non-condensing)
Supply voltage for 1-Wire bus (VDD), VDC	5.0 ± 0.3
Maximum output current for 1-Wire bus (VDD), A	0.2
Analog inputs range, VDC	0 to 60
Analog inputs resolution, VDC	0.01
Analog inputs accuracy, %	± 1

### Typical application



### Supported sensors and detectors



Temperature



Humidity

Barometric  
pressureCO<sub>2</sub>AC/DC  
currentDetectors  
with  
relay output

### Software

- TC Monitor
- TCW Control for Android
- TCW Control for iOS
- Third party software applications

For pricing or any further information, please contact Omni Instruments Ltd.