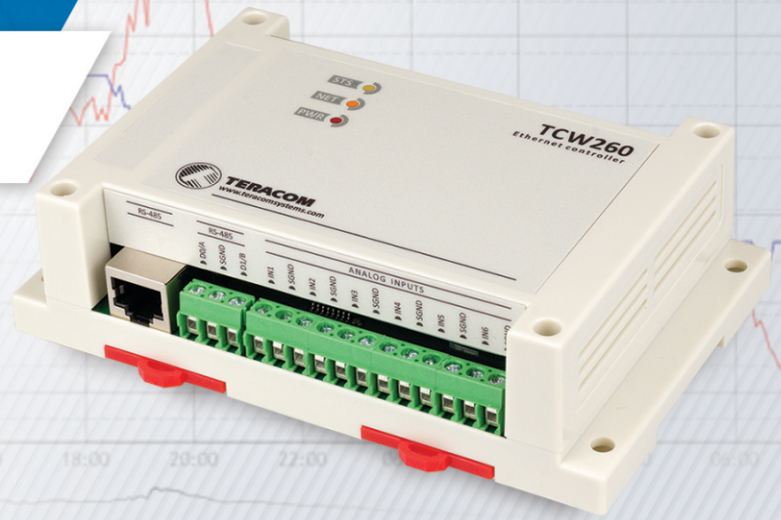




control solutions

# TERACOM

## TCW260 Energy monitoring module



### Overview

TCW260 is an energy monitoring module with an Ethernet interface and data logger functionality.

All its inputs are galvanically isolated from the power supply.

The module has 4 digital inputs, 50 compatible. The digital inputs can work in ON/OFF or counter mode.

There are also 6 analog inputs. Every analog input can work either in voltage (0/10V) or current loop (0/20mA) mode.

The device supports the MODBUS RTU interface for TeraCom and third-party sensors.

The used RS-485 interface is fully isolated from the power supply.

### Applications

- Energy monitoring and targeting for industry;
- Remote monitoring of renewable energy power plants;
- Protocol conversion - MODBUS RTU to MODBUS TCP;
- Water consumption analysis;
- Gas consumption optimization;
- Energy cost optimization systems;
- Energy consumption management systems;
- A building management system;
- Industrial processes monitoring;
- General SCADA systems.

### Interfaces



100 Mbit  
Ethernet



4x Digital  
Isolated Inputs



0/10V  
0/20mA  
6x Analog  
Isolated Inputs



MB RTU  
Isolated  
MB RTU

### Basic features

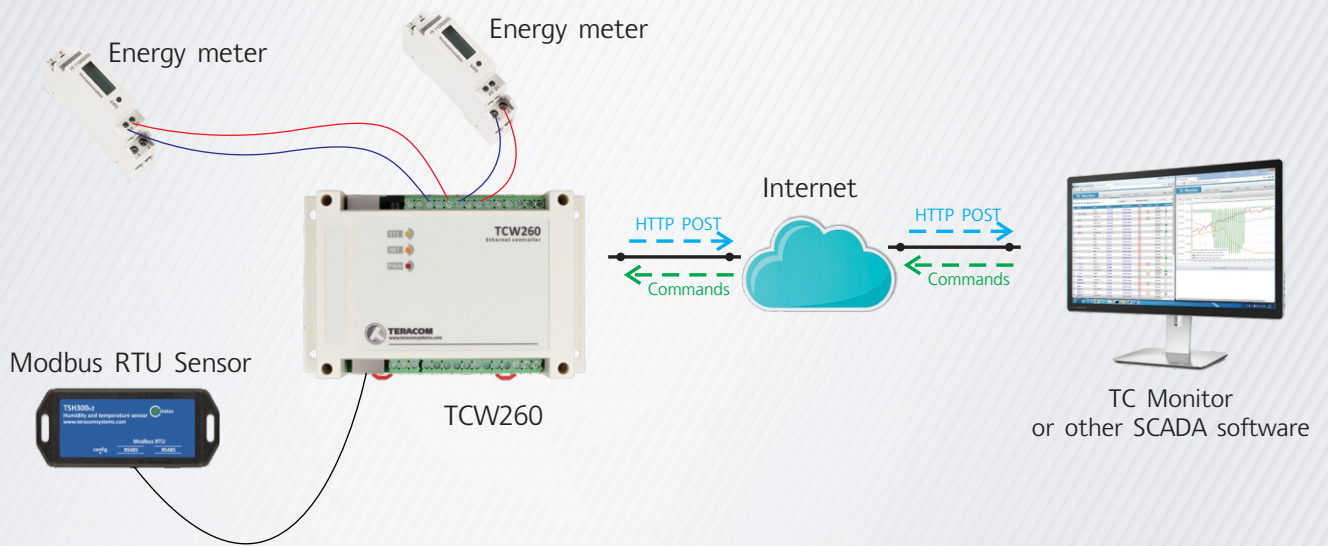
- Up to 24 channels for voltage/current or energy monitoring;
- Up to 24 categorized alarms with flexible setup;
- Graphs for monitored channels/alarms directly on the browser;
- 4 isolated digital inputs with 50 interface (EN62053-31);
- ON/OFF and counter modes for the digital inputs;
- 6 isolated analog inputs with 0/20mA or 0/10V modes;
- RS-485 isolated interface for up to 24 MODBUS RTU registers;
- Periodical HTTP Post with XML/JSON files;
- Data logger for 70000 records;
- NTP support
- HTTP API commands;
- SNMP v.2 support;
- Dynamic DNS support ;
- Backup/Restore for device settings multiplications.



## Short specification

Supply voltage, VDC	10 - 32
Maximum current (without RS-485 powering), mA	220 @ 12 VDC
Weight, g	200
Dimensions, mm	145 x 90 x 40
Operating temperature range, °C	-20 to + 55
Operating relative humidity range, %RH	10 to 80 (non-condensing)
Isolation functional, VDC	1000
Maximum voltage applied to a digital input, V	+ 5
Maximum drop voltage between S0 + and S0-, V	1
Maximum frequency for digital input in counter mode, Hz	10
Analog inputs voltage range	0/10V
Analog inputs current loop ranges	0/20mA
Analog inputs accuracy, %	± 1

## Typical application



## Supported sensors and detectors



Energy meter



Gas/water meter



AC/DC current



AC/DC Voltage



Temperature



Humidity

## Software

- Third party SNMP software applications
- Third party HTTP API software applications