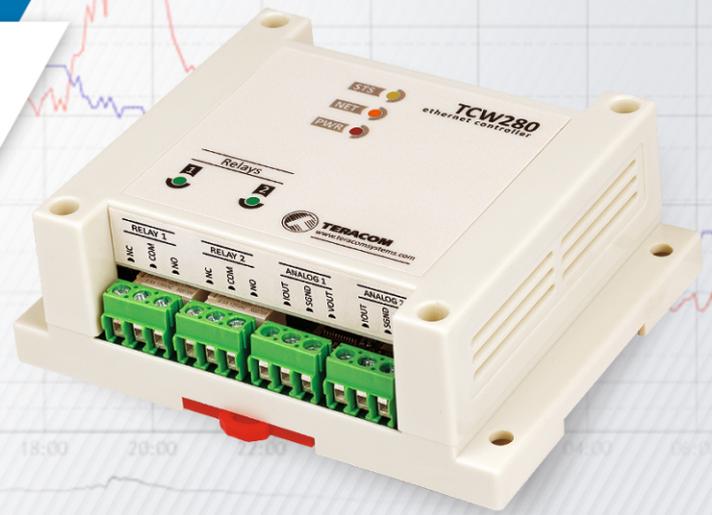




control solutions

TERACOM



TCW280 Analog output module

Overview

TCW280 is an analog output module with an Ethernet interface and galvanic isolation between power supply and outputs.

It has 2 analog output channels. Every channel can work either in voltage (0/5 or 0/10V) or current loop (0/20, 4/20 or 0/24mA) mode. Generated signals have excellent stability and 12-bit resolution.

The device has also 4 digital (open-drain) outputs. The digital outputs work in two modes ON/OFF or PWM. In ON/OFF mode they can be used as a standard digital output to control devices with dry contact activation. In the PWM mode, the output can be used as an “analog” output for appropriate processes.

TCW280 has also 2 relays with normally closed and normally open contacts. Both relays can be activated from the WEB interface, M2M protocol or by the schedule.

The module supports MODBUS TCP/IP, SNMP, and HTTP API for M2M communication.

Applications

- Direct electronic valve actuators control;
- DC motor speed control;
- Direct dimming of RGB LED's;
- Variable frequency drive control;
- Solenoid valve control;
- Solid state relay control;
- Remote transmission (tunneling) of analog signals.

Interfaces



100 Mbit
Ethernet



2x
Digital Outputs
ON/OFF or PWM



2x
Analog Outputs
Voltage or Current



2x
Relay Outputs

Basic features

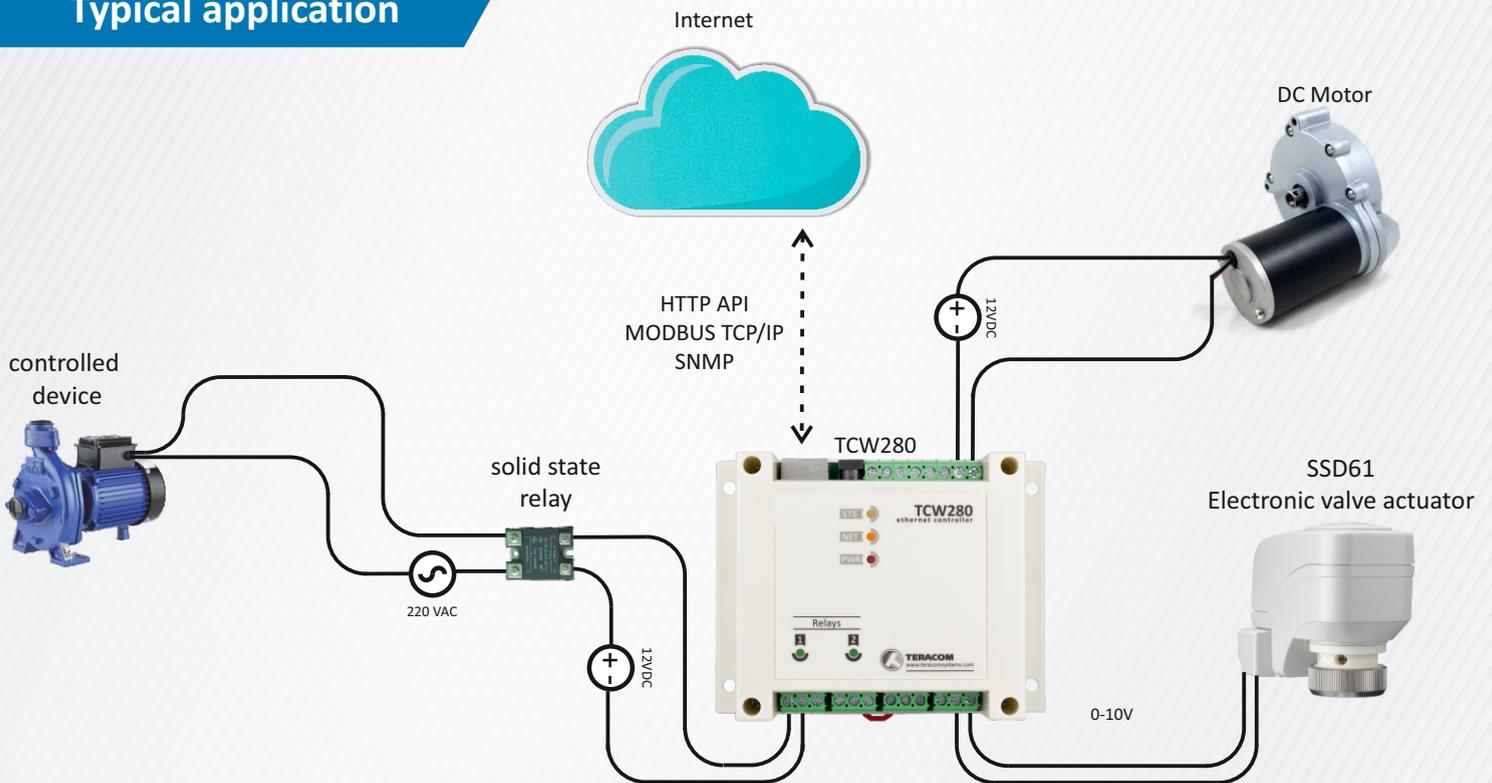
- Galvanically isolated outputs;
- SNMP v2 support;
- MODBUS TCP/IP support;
- Periodical HTTP post with XML/JSON status file;
- HTTP API commands in server and client mode;
- 4 schedules with single and weekly mode;
- Dynamic DNS support;
- DIN-Rail/wall-mountable enclosure;
- Back-up/Restore of configurations;
- Remote firmware update.



Short specification

| | |
|---|--|
| Supply voltage, VDC | 10 - 32 |
| Maximum current (with all relays ON), mA | 220@12VDC |
| Weight, g | 170 |
| Dimensions, mm | 115 x 90 x 40 |
| Operating temperature range, °C | -10 to +55 |
| Operating relative humidity range, %RH | 10 to 80 (non-condensing) |
| Analog output voltage ranges, VDC | 0/5V or 0/10V |
| Analog output current loop ranges, mA | 0/20, 4/20mA or 0/24mA |
| Analog outputs accuracy, % | ± 1 |
| Open drain output maximum voltage, VDC | 24 |
| Open drain output maximum current, A | 0.3 |
| Open drain output in PWM mode - frequency, Hz | 1, 5, 10, 50, 100, 500, 1000, and 2000 |
| Maximum switchable relay current, A | 0.5 |
| Maximum switchable relay voltage, VAC/VDC | 30/24 |
| Isolation between power supply and outputs, V | 1000 |

Typical application



Software

- Third party SNMP managers;
- Third party MODBUS TCP/IP software;
- Third party HTTP XML/JSON applications.