TCW122B-CM
Remote IO module

Overview

TCW122B-CM is a remote IO module for environmental monitoring and control. It has 2 digital, 2 analog inputs and 1-Wire interface for up to 2 temperature/humidity sensors.

The controller has 2 relays with normally open and normally closed contacts.

The relays can be activated either remotely or locally. The remote activation includes WEB interface or M2M protocols – SNMP and HTTP API. The local activation is possible from a status of monitored parameter (temperature, humidity, analog voltage and dry contact). Only one parameter can manage the relay at the same time.

For every monitored parameter e-mail and/or SNMP trap can be sent as an alert for previous set alarm conditions.

Applications

- **Remote environmental monitoring** – The device can monitor temperature and humidity in server rooms, data centers, mobile operators facilities room, offices etc.

- **Remote control of electric devices** - With its 2 relays, the device can control independently 2 electric devices. This can be done either by command through the embedded WEB server or by some dedicated application, for example, TCW Control.

- **Home and office alarm systems** – The device can be set up to send e-mail and SNMP traps alerts in case of an alarm condition for temperature/humidity and digital/analog inputs.

- **SCADA systems** - With its supported M2M protocols, the device can be easily integrated into supervisory control and data acquisition systems.

Interfaces

10 Mbit Ethernet	2x Digital Inputs	2x Analog Inputs	2x Relay Outputs	2x 1-Wire Sensors

Basic features

- Embedded WEB server for configuration and control;
- „Dry contact" and „Logic level" modes for digital inputs;
- SNMP v1 support;
- SNMP traps for alarm conditions;
- SMTP without SSL/TLS support;

- Emails on alarm conditions;
- HTTP API commands support;
- XML status report file;
- HTTP and SNMP port changing;
- Remote firmware update.

www.teracomsystems.com

Short specification

Supply voltage, VDC	12±2
Maximum current (with both relays ON), mA	200
Weight, g	110
Dimensions, mm	107 x 72 x 32
Operating temperature range, °C	-20 to 55
Operating relative humidity range, %RH	5 to 85 (non-condensing)
Minimum high-level input voltage for digital inputs, VDC	+ 2.5
Maximum low-level input voltage for digital inputs, VDC	+ 0.8
Maximum input voltage for digital inputs, VDC	+ 5.5
Supply voltage for the 1-wire bus (VDD), VDC	5.3 ± 0.2
Maximum output current for the 1-wire bus (VDD), A	0.2
Analog inputs range, VDC	0 to 60
Maximum switchable current for relay contacts, A	3
Maximum switchable voltage for relay contacts, VAC/VDC	30/24

Typical application

Mobile device

INTERNET

Router

TCW122B-CM

TSH202v2

Supported sensors and detectors

Temperature

Humidity

Smoke Detectors

Door and Window Sensors

AC Voltage Detector

Other Sensors with Relay Output

Software

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