



control solutions

TERACOM

TCW122B-CM Ethernet controller



Overview

TCW122B-CM is an Ethernet controller for remote 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 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



0-60V
2x
Analog Inputs



2x
Relay Outputs



1-Wire
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.



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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, °C | 0 to 40 |
| Maximum humidity in 0 to 31°C range, %RH | 80 |
| Maximum humidity at 40°C (linear slope between 31-40°C), %RH | 50 |
| 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 1-wire bus (VDD), VDC | 5.3 ± 0.2 |
| Maximum output current for 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 | 42/60 |

Typical application

Mobile device



INTERNET



Router



TCW122B-CM



TSH202



Supported sensors and detectors



Temperature



Humidity

Smoke
DetectorsDoor and Window
SensorsAC Voltage
DetectorOther Sensors
with Relay Output

Software

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