



control solutions

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TCW210-TH Temperature and humidity data logger



Overview

TCW210-TH is a temperature and humidity data logger with Ethernet interface for communication. Real-time data and charts of temperature, humidity and dew point can be monitored with a standard web browser (no special software is needed).

TCW210-TH supports temperature or temperature-humidity sensors. All they can be connected either to 1-Wire interface or to more robust MODBUS RTU over RS485. The maximum number of sensors is 8 and it is irrelevant which of the two interfaces will be used.

All monitored parameters can be recorded in internal FLASH memory. The records are made on the previous set time interval and/or on an alarm condition. The memory is large enough for at least 36 days with records on every 1 minute. The log file can be periodically uploaded on dedicated server by HTTP Post.

Standard protocols as SNMP, MODBUS/TCP, and HTTP/API are also available for M2M applications.

Applications

- **Server room monitoring** – The device can monitor temperature and humidity in ISP and mobile operator's rooms with special requirements for environmental parameters.
- **SOHO environmental monitoring** – The device is excellent choice for temperature and temperature/humidity monitoring of offices, public rooms, homes etc.
- **M2M systems** – The device can send periodically information to monitoring server and execute its commands.
- **Temperature monitoring for food and beverage** – The device can ensure compliance with regulations for food and beverage processing and storage.

Interfaces



100 Mbit
Ethernet



up to 8
temperature and humidity sensors



Basic features

- Data Logger for 70000 records;
- Graphical view of logged data;
- Automatic upload of logged data in CSV format;
- MODBUS/TCP support;
- SMTP support for e-mail alert;
- SNMP v2 support with trap alert;
- HTTP Post service with API commands;
- XML/JSON status report files;
- 1-Wire and MODBUS RTU sensors support;
- Thingspeak service support;
- Dynamic DNS support;
- Back-up/Restore of configurations.

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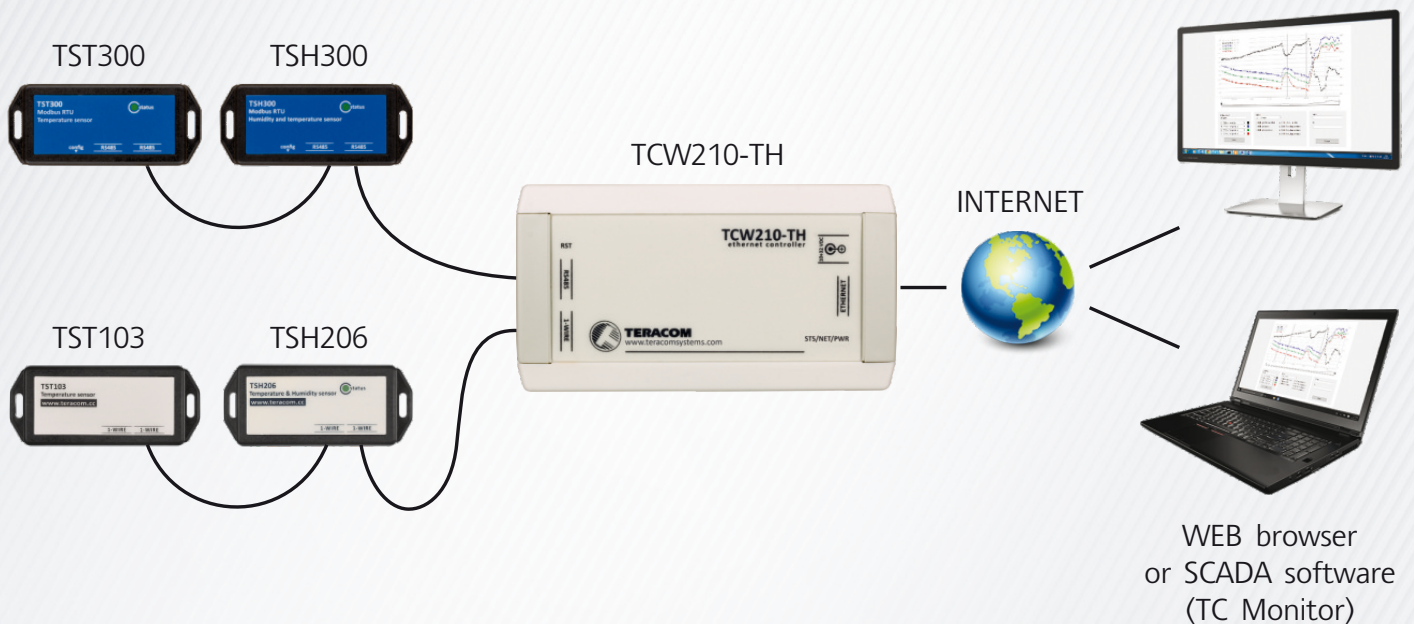
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TCW210-TH - Temperature and humidity data logger

Short specification

Supply voltage, VDC	10 - 32
Maximum current, mA	170 @ 12VDC
Weight, g	140
Dimensions, mm	130 x 70 x 30
Operating temperature, °C	-20 to + 55
Maximum humidity, %RH	70
Supply voltage for 1-Wire bus, VDC	5.0 ± 0.3
Supply voltage for RS485 bus, VDC	5.0 ± 0.3
Maximum output current for 1-Wire and RS485 buses, A	0.2

Typical application



Software

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