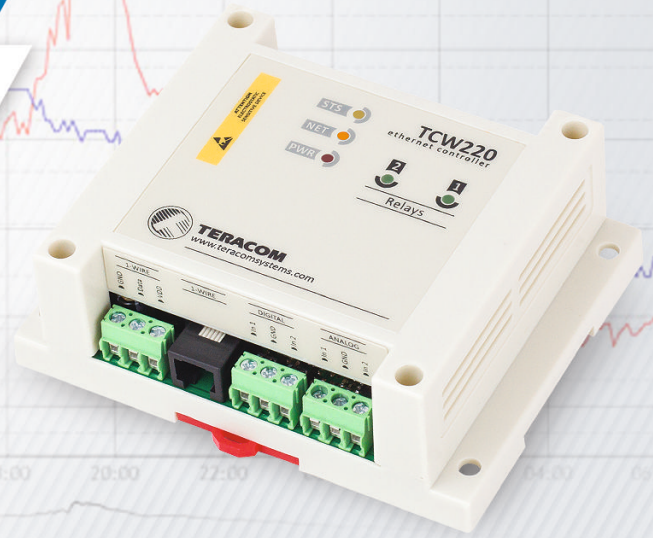# TCW220
Ethernet data logger

Overview

TCW220 is an Ethernet data logger for general data acquisition applications.

Its analog inputs, with 10-bit resolution, can be used for monitoring of 0-10 V and 4-20 mA sensors. Digital „dry contact" inputs can monitor discrete detectors – door sensor, smoke detector, AC voltage presence etc.

TCW220 supports up to 8 TERACOM 1-Wire sensors for temperature, humidity, carbon dioxide, 0-20mA, AC/DC current, etc.

The Ethernet data logger has 2 relays with normally open and normally closed contacts.

All monitored parameters can be logged on a previous set time interval and/or on an alarm condition. In the internal nonvolatile memory can be stored up to 70000 records. The log file can be periodically uploaded to dedicated server by HTTP Post.

Applications

- **Environmental monitoring** – The device can monitor temperature, humidity, barometric pressure, CO_2 etc.

- **Server room monitoring** - The device can monitor AC power supply, smoke concentration, door opening, battery voltage, room temperature, and control the cooling system.

- **Industrial process automation** – Monitoring of industrial sensors with 0-5V, 0-10V and 4-20mA output.

- **M2M systems** - The device can send periodically information to monitoring server and execute its commands.

- **Data logging of facilities** - The device can log and display the measured data. It can be used as a standalone device or as a part of SCADA system.

Interfaces

100 Mbit Ethernet	2x Digital Inputs	0-10V 2x Analog Inputs	2x Relay Outputs	1-Wire 8x 1-Wire 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;
- Dynamic DNS support;
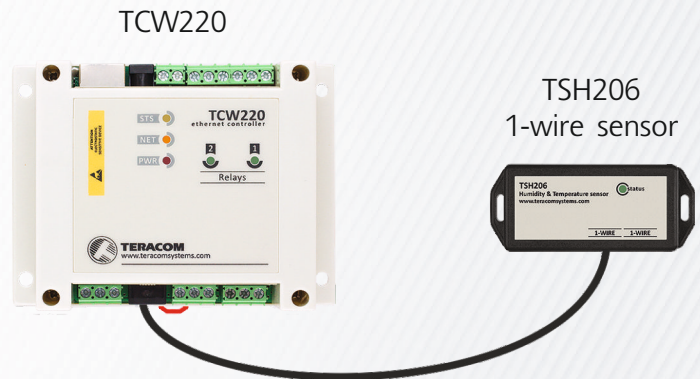- Back-up/Restore of configurations.
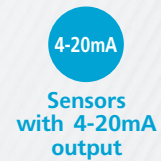
www.teracomsystems.com

Short specification

Supply voltage, VDC	10 - 32
Maximum current (with all relays ON), mA	240 @ 12VDC
Weight, g	170
Dimensions, mm	115 x 90 x 40
Operating temperature range, °C	-20 to + 55
Operating relative humidity range, %RH	5 to 85 (non-condensing)
Supply voltage for 1-Wire bus (VDD), VDC	5.0 ± 0.3
Maximum output current for 1-Wire bus (VDD), A	0.2
Analog inputs range, VDC	0 to 10
Analog inputs resolution, VDC	0.001
Analog inputs accuracy, %	± 1
Maximum switchable relay current, A	3
Maximum switchable relay voltage, VAC/VDC	30/24

Typical application

TCW220

TSH206
1-wire sensor

Supported sensors and detectors

Temperature   **Humidity**   **Barometric pressure**   **CO₂**   **AC/DC current**   **0-10V** Sensors with analog output   **4-20mA** Sensors with 4-20mA output   **Detectors with relay output**

Software

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