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control solutions

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 close contacts.

All monitored parameters can be logged on previous set time interval and/or on alarm condition. In the internal nonvolatile memory can be stored up to 70000 records. 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 0-5 V, 0-10 V and 4-20 mA 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

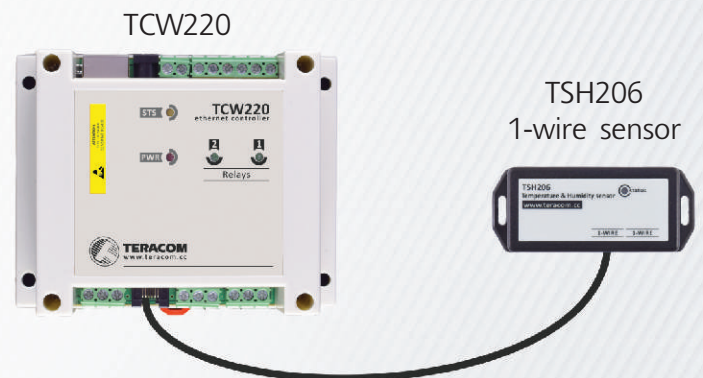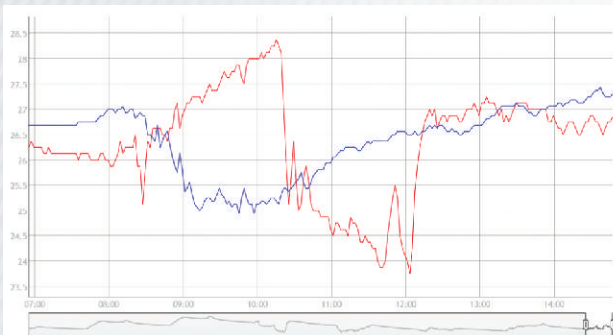| 100 Mbit Ethernet	2x Digital Inputs	0-10V 2x Analog Inputs	2x Relay Outputs	1-Wire 8x 1-Wire Sensors

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;
- NTP protocol support configurations;
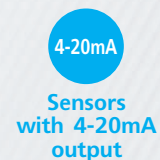- Back-up/Restore of configurations

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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, °C	-20 to + 55
Maximum humidity, %RH	70
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	42/60

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

www.teracom.cc