control solutions
TERACOM

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 0-10V 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, CO2 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 and 0-10V 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	2x Analog Inputs	2x Relay Outputs	8x 1-Wire Sensors
		0-10V		1-Wire

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.

TCW220 - Ethernet data logger

Short specification

Supply voltage, VDC	10 - 28
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



TSC200-15
1-wire sensor



Supported sensors and detectors

- Temperature
- Humidity
- Barometric pressure
- CO_2
- 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