Thermometer with Ethernet Interface and Relays

Order-No: W23-305-115 Series/Model: H4531



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Ethernet Thermometer for Temperature with 3 binary inputs and 2 relay outputs

Main Product Features

- **1 Pt1000 Input(Temperature)**
- **Temperature Range: -30° to +80°C**
- **3 binary inputs**
- **2 Relay outputs**
- **Cable lengths 2m or 4m available optionally**
- **TCP/IP Ethernet Interface, communication via Modbus TCP, WWW Seiten, SNMP and SOAP**
- **Accuracy: ±0,4°C**
- **Protection: IP40**
- **Power 9 - 30VDC**
- **Traceable calibration Certificate include (regarding EN ISO/IEC 17025 standard)**
- **Alarm functions by traps, syslog, www pages e-mails or SMS**
- **Long term stability of parameters**
- **Free TSensor configuration Software**
- **Free SensorRead Software (for logging data to the PC Harddisk)**
- **Warranty 3years**

Transmitter is equipped with three binary inputs for detection of two-state events - e.g. water, smoke, glass break detection, door contact. Fully equipped transmitter contains temperature, humidity, pressure sensors. Measured temperature and relative humidity is recalculated to other humidity interpretations - dew point temperature, absolute humidity, specific humidity, mixing ratio or specific enthalpy. Reading and pressure output available in these units: hPa, kPa, mbar, mmHg, inHg, inH2O, PSI, oz/in2. Degrees Celsius and Fahrenheit are user selectable.

Large dual line LCD for simultaneous display of temperature, pressure or relative humidity or other calculated humidity interpretation is an advantage. Parameters are easy adjustable from transmitter
keyboard or from the computer.

State-of-the-art capacitive polymer sensor ensures excellent calibration long term stability, inertia against water and condensation. Transmitter is designed for use in non-aggressive environment.

Transmitter is equipped with two relay outputs for alarm indication or control of external devices. Each relay can be assigned to any measured or computed value. For each relay setting of delay, hysteresis, audible alarm is enabled.

Modes of Communication between Transmitter and Computer

- Modbus TCP: Modbus TCP protocol enables to read measured values, set alarm limits, adjust the probe.
- Telnet: Port 9999 enables to set alarm limits (lower, upper limits, hysteresis for measured values and time delay), e-mail addresses, SNMP addresses, probe description, refresh of www pages (10s to 65535s), set storing interval to history (10s to 65535s), enable each communication channel. Capacity of the history memory is 100 sets of temperature, humidity, pressure + computed values. Password protection of this port is enabled. Automatic IP address assignment from DHCP server is also enabled.
- WWW Pages: User selectable design of www pages enabling to display curve of measurement history. User can design the look of www pages and temperature, humidity, pressure + computed values history.
- SNMP: It is possible to read actual values and alarm limits. In case of alarm creation warning message (trap) is sent to addresses defined by the user (maximum three addresses).
- SOAP: Online transmitter enables to send actual measured data in the format of SOAP message to selected web server in preset interval 10-65535 s. In case message is not received by the server till next message is sent, warning trap 1/2 is sent.

Transmitter Alarm Indications

- E-Mail: In case of alarm creation warning e-mail message is sent to addresses defined by the user (maximum three addresses) or via e-mail to SMS message.
- SNMP: In case of exceeding of adjusted temperature, humidity, pressure + computed value limits alarm is activated and warning trap is sent to user specified IP addresses (maximum 3 addresses).
- WWW Pages: In case of exceeding of adjusted temperature, humidity, pressure + computed value limits active alarm is displayed on www page.
- Syslog: Online transmitter enables to send text messages to selected syslog server after different events appear. E.g. after transmitter restart, alarm activation, communication error with SNTP, write to transmitter via mdb, sntp, after firmware change, after alarm termination, after communication error with SOAP server.

Applications:

- Industrial Ethernet
- Rack Monitoring
- Server Rooms
- Building Management
- Building Automation
- Telecommunication devices
- Warehouses
- Glasshouses
- Manufactures

- Museums, Archives, Galleries
- Air-Conditioned Rooms
- Weather Stations

Datenblatt Download

H4531 - thermometer with Ethernet interface and relays (4.5 MiB)

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If you have questions please don't hesitate to contact us any time.

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