

INTELLIGENT RELATIVE HUMIDITY, TEMPERATURE, DEW POINT TRANSMITTERS WITH ETHERNET INTERFACE



- Applications: Monitoring of air temperature, relative humidity, dew point in these fields:
- server rooms
- telecommunication devices
- warehouses
- glasshouses
- manufacturers
- museums, archives, galleries
- air-conditioned rooms
- weather stations

Ethernet sensor is designed for measurement of temperature, relative humidity and dew point. Ethernet probe contains control circuitry in a durable plastic case and T+RH sensors on a cable with a bronze sintered filter. Large dual line LCD for simultaneous display of temperature and relative humidity, or dew-point temperature is an advantage. Display is possible to switch off. State-of-the-art capacitive polymer sensor ensures excellent calibration long term stability, inertia against water and condensation. Humidity transmitter is designed for use in non-aggressive environment.

Ethernet interface enables to control transmitter from the PC. Following communication features are supported:

MODES OF COMMUNICATION	
ModBus:	ModBus protocol enables to read measured values, set alarm limits, adjust the probe, read firmware version.
Telnet:	Port 9999 enables to set alarm limits (lower and upper limits for T, RH, Tdp, hysteresis and time delay), e-mail addresses, SNMP addresses, probe description, refresh of www pages (10s to 65535s), select type of www pages, set storing interval to history (10s to 65535s), enable each communication channel. Capacity of the history memory is 100 sets of T+RH+Tdp values. Password protection of this port is enabled.
WWW pages:	Work in two modes: 1) Actual values, alarm limits and alarm states are displayed. No modification of setting is enabled in this mode. 2) User selectable design of www pages enabling to display curves of measurement history. User can design the look of www pages and select values to display.
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).
E-mail:	In case of alarm creation warning e-mail message is sent to addresses defined by the user (maximum three addresses).

COMMON TECHNICAL PARAMETERS	
Temperature operating range of case with electronics:	-30 to +80 °C
Temperature operating range of LCD display:	readable to operating temperature +70 °C, it is recommended to switch OFF the LCD over +70 °C
Protection:	IP20
LAN connection:	connector RJ-45
Power:	9-30Vdc, maximum consumption 200mA
Power connector:	co-axial, diameter 5 x 2.1 mm
Mechanical dimensions of the case (W x H x D):	88 x 98 x 37 mm
Warranty:	2 years

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TECHNICAL PARAMETERS - temperature, humidity, dew point transmitter T3511

Accuracy of temperature measurement:	±0.4 °C
Air relative humidity range:	0 to 100%
Accuracy of relative humidity measurement:	±2.5% relative humidity from 5 to 95% at 23 °C
Accuracy of dew-point temperature output:	±0.5 °C from 30 to 95% RH (calculated from temperature and RH)
Range of RH sensor temperature compensation:	-30 to +105 °C
Filtering ability of sintered bronze sensor cover:	0.025mm
Protection:	IP40

Model T3511

Measured value:	RV+T+Tdp (Tdp .. dew point temperature)
Maximum temperature measuring range:	-30 to +105 °C* probe, cable + 80 °C max, optionally with cable up to +105 °C
Note:	T+RH probe with 1m cable. Cable lengths 2m or 4m available optionally.

Model T4511

Measured value:	temperature
Maximum temperature measuring range:	-200 to +600 °C, accuracy ±0.2 °C
Note:	temperature transducer for Pt1000/3850ppm probes

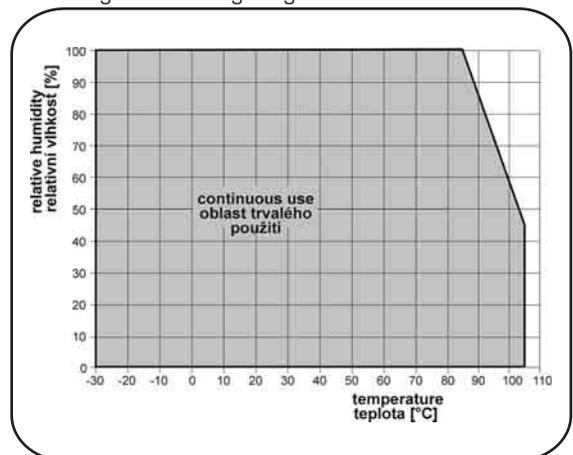
Model T3511



Model T4511



Figure: Working range of Ethernet sensor



Included accessory:

Calibration certificate from the manufacturer; instruction manual. Free configuration program for transmitter adjustment is ready to download anytime.

Optional accessory: see further

* Relative humidity at temperature over +85 °C is limited in accordance with the graph. Near plastic case with electronics maximum temperature is +80 °C.