

TEMPERATURE, HUMIDITY, BAROMETRIC PRESSURE TRANSMITTERS with serial RS232 output

temperature * barometric pressure * relative humidity * dew point temperature * absolute humidity * specific humidity * mixing ratio * specific enthalpy



_APPLICATIONS
_server rooms
_telecommunication devices
_warehouses
_manufacturers
_museums, archives, galleries
_air-conditioned rooms
_weather stations

Measured temperature, barometric pressure, relative humidity, dew point temperature, absolute humidity, specific humidity, mixing ratio or specific enthalpy is converted to digital serial output with the RS232 link parameters. Degrees Celsius and Fahrenheit are user selectable. Large dual line LCD for display of temperature, humidity, pressure or other calculated humidity interpretation is an advantage. Computerized design ensures maximum long term stability and fail indication. The transmitter works with ModBus RTU communication protocol or with Advantech ADAM compatible protocol. Protocol is user selectable in special configuration mode by means of the PC. Serial link enables to read actual readings and modify transmitter configuration. Instrument works always in slave mode, i.e. responds only to master device query. Transmitters have the address space available from 1 to 255. Transmitters with RS232 output can be powered directly from the PC port or from external ac/dc adapter.

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TECHNICAL PARAMETERS						
Applied temperature sensor:	RTD, Pt1000-3850ppm/°C					
Supported temperature units:	degrees Celsius, degrees Fahrenheit					
Operating temperature range of the electronics:	-30 to +80°C, switch OFF the display over +70°C					
Accuracy of temperature measurement:	±0.4°C, accuracy of T4411 transducer input is ±0.2°C					
Range of temperature measurement:	O to 100%					
Accuracy of relative humidity measurement:	±2.5%RH from 5 to 95% at 23°C					
Accuracy and range of dew point temperature:	±1.5°C at ambient temperature < 25°C and RH>30%, range -60 to +80°C					
Accuracy and range of absolute humidity:	±3g/m³ at ambient temperature T < 40°C, range O to 400 g/m³					
Accuracy and range of specific humidity:	±2g/kg at ambient temperature T < 35°C, range O to 550 g/kg					
Accuracy and range of mixing ratio:	±2g/kg at ambient temperature T < 35°C, range O to 995 g/kg					
Accuracy and range of specific enthalpy:	± 3kJ/kg at ambient temperature T < 25°C, range O to 995 kJ/kg					
Accuracy and range of barometric pressure:	± 1.3hPa at 23°C, range: 600 to 1100hPa					
Supported pressure units:	hPa, kPa, mbar, mmHg, inHg, inH ₂ O, PSI, oz/in²					
Range of temperature compensation of RH sensor:	-30 to +125°C					
Power:	9 to 30 V DC, consumption approximately 6mA					
Protection - temperature and humidity transmitters:	IP65 electronics with terminals, IP40 humidity and temperature sensors					
Protection - transmitters measuring pressure:	IP54 electronics with terminals, IP40 humidity and temperature sensors					
Filtering ability of sensor cover:	0,025mm					
Communication protocols:	ModBus RTU, ADAM Advantech					
Communication speed:	110 to 115200 Bd					
Dimensions of the case without cable glands:	89 x 73 x 39.5 mm					
Warranty:	two years					

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__AVAILABLE MODELS - circuitry is not GALVANICALLY ISOLATED from power:

MODEL	MEASURED VALUE	MAXIMUM TEMPERATURE AND PRESSURE MEASURING RANGE	STEM LENGTH	DESCRIPTION	Figure
T4311	Т	-200 to +600°C	-	Temperature transducer for external probes with Pt1000-3850 sensor (not included), input accuracy ±0.2°C	3
T0310	T.	-30 to +80°C	53mm	Thermometer - outdoor, indoor use	1
T3311	T+H	-30 to +80°C	75mm	Thermometer-hygrometer - outdoor, indoor use	2
T7310	T+H+P	-30 to +80°C 600 to 1100hPa	75mm	Thermometer-hygrometer - T+RH probe with 1 m cable, diameter 18mm. Available also with cable lengths 2m or 4m.	2
T7311	T+H+P	-30 to +105°C ¹⁾ 600 to 1100hPa		Thermometer-hygrometer-barometer - T+RH probe with 1 cable, diameter 18mm. Available also with cable 2m or 4m.	n 5
T2314	Р	600 to 1100hPa		Barometer - outdoor, indoor use	4

T-temperature H-humidity P-barometric pressure

1] Maximum temperature of the probe including cable. Relative humidity at temperature over +85°C is limited in accordance with the graph. Near plastic case with electronics maximum temperature is +80°C.

Barometer enables to measure sea level pressure by setting of correction to altitude above sea level.













___Included accessory:

Traceable calibration certificate from the manufacturer, instruction manual. Calibration certificate with declared metrological traceability of etalons is based on requirements of EN ISO/IEC 17025 standard.

Free program TSensor for configuring of the transmitter is ready to download from www.cometsystem.cz.

Free program SensorReader for logging values from one thermometer to a PC disk file is ready to download. Recorded values in CSV format are easy to process in e.g. Excel.

Optional accessory:

- MP006 RS232 / USB converter for easy connection to the PC USB port
- -Comet **probes with Pt1000** sensors are directly connectable to T4311 transducer-see further. There is a symbol /O behind probe name.

Other accessories - see further

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