

Measured temperature, relative humidity, dew point temperature, absolute humidity, specific humidity, mixing ratio or specific enthalpy is converted to digital serial output with the RS485 or RS232 link parameters. Large dual line LCD for simultaneous display of temperature and relative humidity, or other calculated humidity interpretation is an advantage. Computerized design ensures maximum long term stability and fail indication. The transmitter works with ModBus communication protocol or with Advantech ADAM compatible protocol. Protocol is user selectable in special configuration mode by means of the PC. Other communication protocols are available. 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 0 to 255. The T3311 RS232 transmitter can be powered directly from the PC port or from external ac/dc adapter. State-of-the-art capacitive polymer sensor excels in mechanical stress, temperature shock, dew resistance as well as in large linearity range and low hysteresis. Air humidity transmitters are designed for use in non-aggressive environment.

TECHNICAL PARAMETERS					
Temperature sensor:	RTD Pt1000-3850ppm/°C				
Operating temperature range of the case:	-30 to +70°C, with switched OFF LCD display up to +80°C				
Accuracy of temperature measurement:	±0.4°C				
Measuring air relative humidity range:	O to 100%				
Accuracy:	±2.5%RH from 5 to 95% at 23°C				
Accuracy and range of dew point temperature output: Accuracy and range of absolute humidity output: Accuracy and range of specific humidity output: Accuracy and range of mixing ratio output: Accuracy and range of specific enthalpy output: Range of temperature compensation of RH sensor: Power: Protection of the case with electronics and terminals: Filtering ability of sintered bronze sensor cover: Communication protocol: Communication speed:	<ul> <li>±1,5°C at ambient temperature &lt; 25°C and RH&gt;30%, range -60 to +80°C</li> <li>±3g/m³ at ambient temperature T &lt; 40°C, range 0 to 400 g/m³</li> <li>±2g/kg at ambient temperature T &lt; 35°C, range 0 to 550 g/kg</li> <li>±2g/kg at ambient temperature T &lt; 35°C, range 0 to 995 g/kg</li> <li>±3kJ/kg at ambient temperature T &lt; 25°C, range: 0 to 995 kJ/kg</li> <li>-30 to +125°C</li> <li>9 to 30 V DC, power consumption approximately 0.5W</li> <li>IP65, IP40 sensors</li> <li>0.025mm</li> <li>ModBus and Advantech ADAM compatible protocol</li> <li>110 to 115200 Bd</li> </ul>				
Dimensions of T3411, T3311: Warranty:	88 x 165 x 37 2 years				

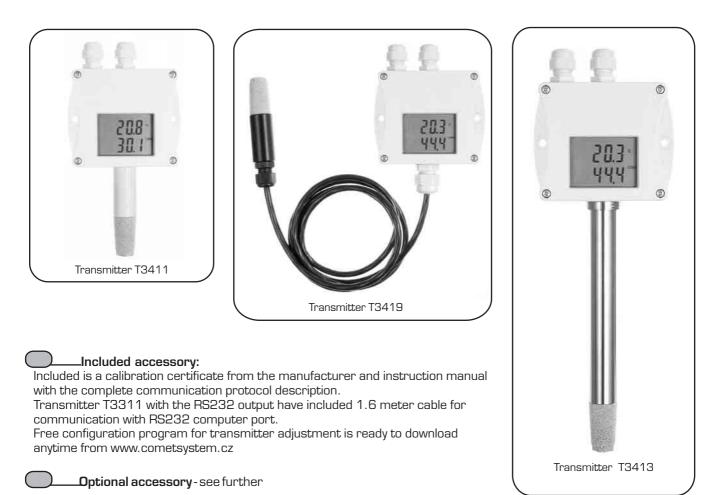


## INTELLIGENT HUMIDITY AND TEMPERATURE TRANSMITTERS WITH RS485, RS232 SERIAL OUTPUT

temperature relative humidity dew point temperature absolute humidity specific humidity mixing ratio specific enthalpy

TRANSMITTERS ARE AVAILABLE IN FOLLOWING MODELS:						
TYPE	Measur. Value	MAXIMUM RANGE OF TEMPERATURE MEASUREMENT	STEM LENGTH	GALVANIC ISOLATION OF COMMUNICATION CIRCUITRY FROM POWER CIRCUITRY	NOTE	
TRANSMITTERS WITH RS485 SERIAL OUTPUT						
T3411	RH+T	-30 to +80°C	75mm	yes	outdoor and indoor	
T3413	RH+T	-30 to +125 ° C <sup>1)</sup>	1150mm	yes	duct mount	
T3417	RH+T	-30 to +125°C <sup>1)</sup>	700mm	yes	bar type	
T3419	RH+T	-30 to +105 °C <sup>1)</sup>	probe cable	yes	T+RH probe with 1m cable. Cable	
		probe,cable+ 80°C	1,2,4m		lengths 2m or 4m available	
TRANSMITTERS WITH RS232 SERIAL OUTPUT						
Т3311	RH+T	-30 to +80°C	75mm	no	outdoor and indoor use	

1] Maximum temperature only at the measuring end with sensors. Relative humidity at temperature over +85°C is limited in accordance with the graph at page 24. Near plastic case with electronics maximum temperature is +80°C.



Humidity transmitters T341x configured to ADAM protocol are directly compatible with sixteen channel Comet

monitoring system MS2+, MS3+, MS4+.

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