

AR252

Two-Wire Relative Humidity And Temperature Transmitter Type AR252



Two-wire relative humidity and temperature transmitter type AR250 is designed for measuring and control of relative humidity and temperature in air-conditioning and industrial systems.

Transmitter converts capacity changes of thin-film sensor and platinum temp. sensor into standard output signal 4-20 mA or 0-10 V, which can be measured by a meter.

Electronic system of the transmitter is made in two-wire technology. Output current 4-20 mA and power supply are sent by the same wires. All system is placed into polycarbonate box of internal protection IP65, adjusted to be assembly in rooms or in ventilator canals.

Technical specification

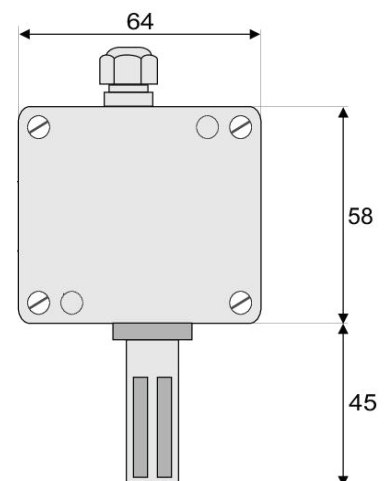
Type of sensor	Power supply U_z	Ambient temperature
Thin-film capacity sensor, Pt100	Depends of output signal	-30°C..+80°C -20°C..+70°C with LCD display

INPUT

Measuring range		Accuracy in the range 10-90% R.H.
0 – 100 % RH	(0-10 % RH) i (90-100 % RH)	± 5 or 4 % RH
	10 – 90 % RH	± 3 or 2 % RH
-30°C..+80°C		0,4°C or 0,3 °C

OUTPUT

Output current	Power supply
4 – 20 mA	12 – 36 V DC; $Rob = (U_z - 12)/22$ [mA]
0-10 V DC	18 – 30 V DC
Interface RS485 or RS232	9-28 V AC or 9-36 V DC



Ordering Information

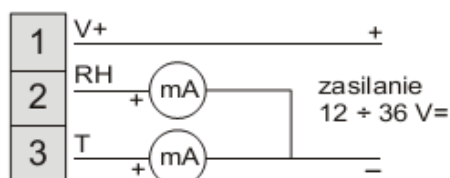
AR252	A	B	C
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A Output	
J2	Current (2P) 4 – 20 mA
U3	Voltage (3P) 0 – 10 V DC
R4	Interface RS 485
R2	Interface RS 232

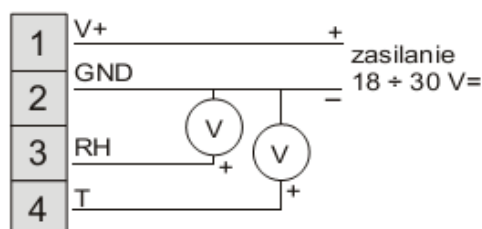
B Accuracy	
4%	4% RH, 0,4 °C
2%	2% RH, 0,3 °C

C LCD display	
LCD	LCD display

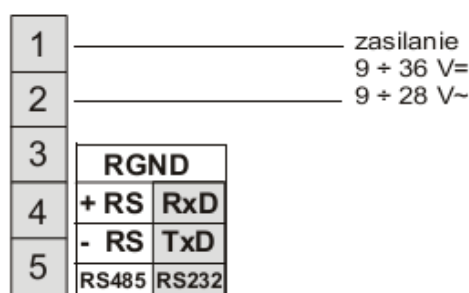
TERMINAL STRIP



AR252/J2



AR252/U3



AR252/R4
AR252/R2

Ordering Example:

AR252-J2-2%-LCD

stands for: Relative humidity and temperature transmitter type AR250, with current output 4 – 20 mA, accuracy 2% RH i 0,3 °C, with LCD display.