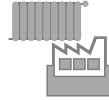
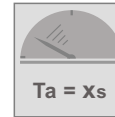
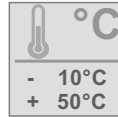


**APPLICATION AREA**



Combined sensor: humidity sensor, temperature sensor.

**CHARACTERISTICS**



**TECHNICAL DATA**

Ambient temperature	-10...+50°C
Storage temperature	-10...+50°C
Protection class	IP 20
Supply voltage	U <sub>b</sub> = 9-30VDC
Power requirements	<20mA
Temperature sensor	PT 1000 B; 2-wire connection
Humidity application area	0...100% relative humidity; Non-condensing
Response time	typ. 6sec (50%RH → 0%RH)
Humidity tolerance	± 3% relative humidity
Output signal	4-20mA ; equates to 0...100% RH not temperature compensated
Maximum load	R <sub>bmax</sub> = 50 x U <sub>b</sub> - 350

**TEMPERATURE CROSS SENSITIVITY**

Formula:  $d\%RH = (B1 \times \%RH + B2) \times T[^\circ C] + (B3 \times \%RH + B4)$   
 B1[1/°C] = 0.0014  
 B2[%RH/°C] = 0.1325  
 B3 = -0.0317  
 B4[%RH] = -3.0876

**COMMENTS**

Temperature compensated models on request.

