AERECO

S-RH/T

Relative humidity and temperature sensor
with digital and analog outputs

- Digital humidity and temperature sensor
- Fully calibrated
- High accuracy
- Excellent long-term performance
- Capacitive technology for humidity measurement
- Band gap technology for temperature measurement
- No maintenance

A versatile unit that measures humidity and temperature

The S-RH/T is designed for applications such as demand-controlled ventilation and air conditioning where accurate measurements, excellent long-term stability, and maintenance free-operation are absolute musts.

Wherever the unit is installed (schools, cloakrooms, lab, kitchen, etc.), the temperature and humidity measurements are available simultaneously to optimize their contribution to comfort and health.

An intelligent and effective device

Using the dependable capacitive technology to measure humidity and the band gap technology for temperatures, each sensor is fully calibrated for best accuracy: +/-2 % RH* and +/-0.3°C**. The output signal is analog (0-10V).

*typical accuracy for RH from 20 % to 80 %
**typical accuracy for T from 5°C to 60°C

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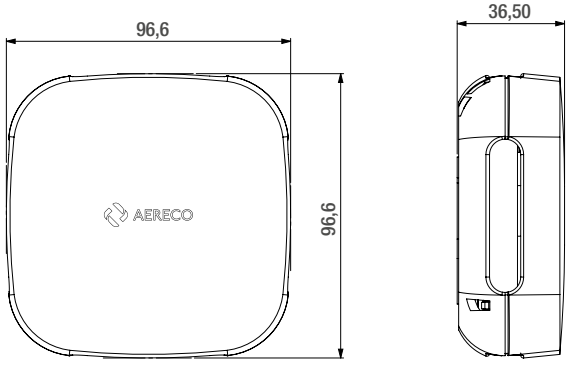
		S-RH/T
Standard code		CAP1161
Measurement principle		Capacitive humidity sensor Band gap temperature sensor
Working range	°C / RH%	0°C +50°C 0 % - 100 % Relative Humidity
Precision RH		typical +/-2,5 %, max +/-3,5 % RH at 25°C in 20 % -80 % range
Accuracy of temperature		typical 0,5°C [5°C ; 50°C] range
Measurement reporting interval	s	60 s
Supply voltage	VDC	12 VDC +/- 10 %
Average power consumption	A	15 mA
Max. peak current	A	1 A (use for fuse sizing)
Enclosure Protection		IP 20
Storage conditions		10…50°C 0...60 % RH
0-10 V analog output		
Output data		0 to 10 V 0V = 0 % RH - 10 V = 100 % RH 0V = 0°C - 10 V = + 50°C
Voltage	V	0 to 10 V
Required impedence	Ω	>1MΩ
Characteristics		
Weight	g	80.5 g
Colour		white
Material		ABS

Dimensions in mm



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