



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

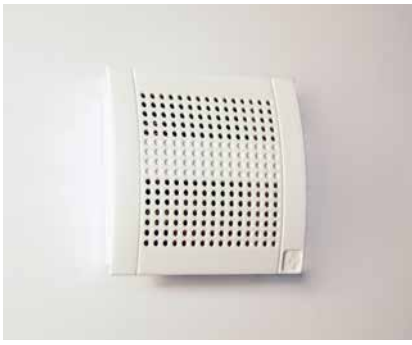
Using the dependable capacitive technology to measure humidity and the band gap technology for temperatures, each sensor is fully calibrated for best accuracy: $\pm 2\%$ RH* and $\pm 0.3^\circ\text{C}$ **.

The user can choose between two signals: analog (0-10 V) and digital (PWM) (both available simultaneously for both humidity and temperature).



*typical accuracy for RH from 20 % to 80 %

**typical accuracy for T from 5°C to 60°C



S-RH/T

Relative humidity and temperature sensor with digital and analog outputs

Standard code

Measurement principle

Working range

Precision RH

Accuracy of temperature

Measurement reporting interval

Supply voltage

Average power consumption

Max. peak current

Enclosure Protection

Storage conditions

PWM digital output

Output data

Voltage

Frequency

0-10 V analog output

Output data

Voltage

Required impedance

Characteristics

Weight

Colour

Material

S-RH/T

CAP1161

Capacitive humidity sensor
Band gap temperature sensor

0°C +50°C

0 % - 100 % Relative Humidity

typical +/-2,5 %, max +/-3,5 % RH at 25°C in 20 % -80 % range

typical 0,5°C [5°C ; 50°C] range

60 s

12 VDC +/- 10 %

15 mA

1 A (use for fuse sizing)

IP 20

10...50°C 0...60 % RH

0 to 100 %

0 % = 0 % RH - 100 % = 100 % RH

0 % = 0°C - 100 % = + 50°C

12 VDC +/- 10 %

1 KHz

0 to 10 V

0V = 0 % RH - 10 V = 100 % RH

0V = 0°C - 10 V = + 50°C

0 to 10 V

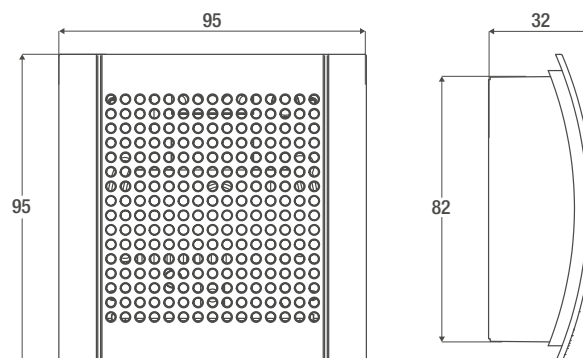
>1MΩ

80.5 g

white

ABS

Dimensions in mm



FLY622GB_v2