

HOTRACO HELPS



RH-sensor

Humidity sensor

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RH-sensor

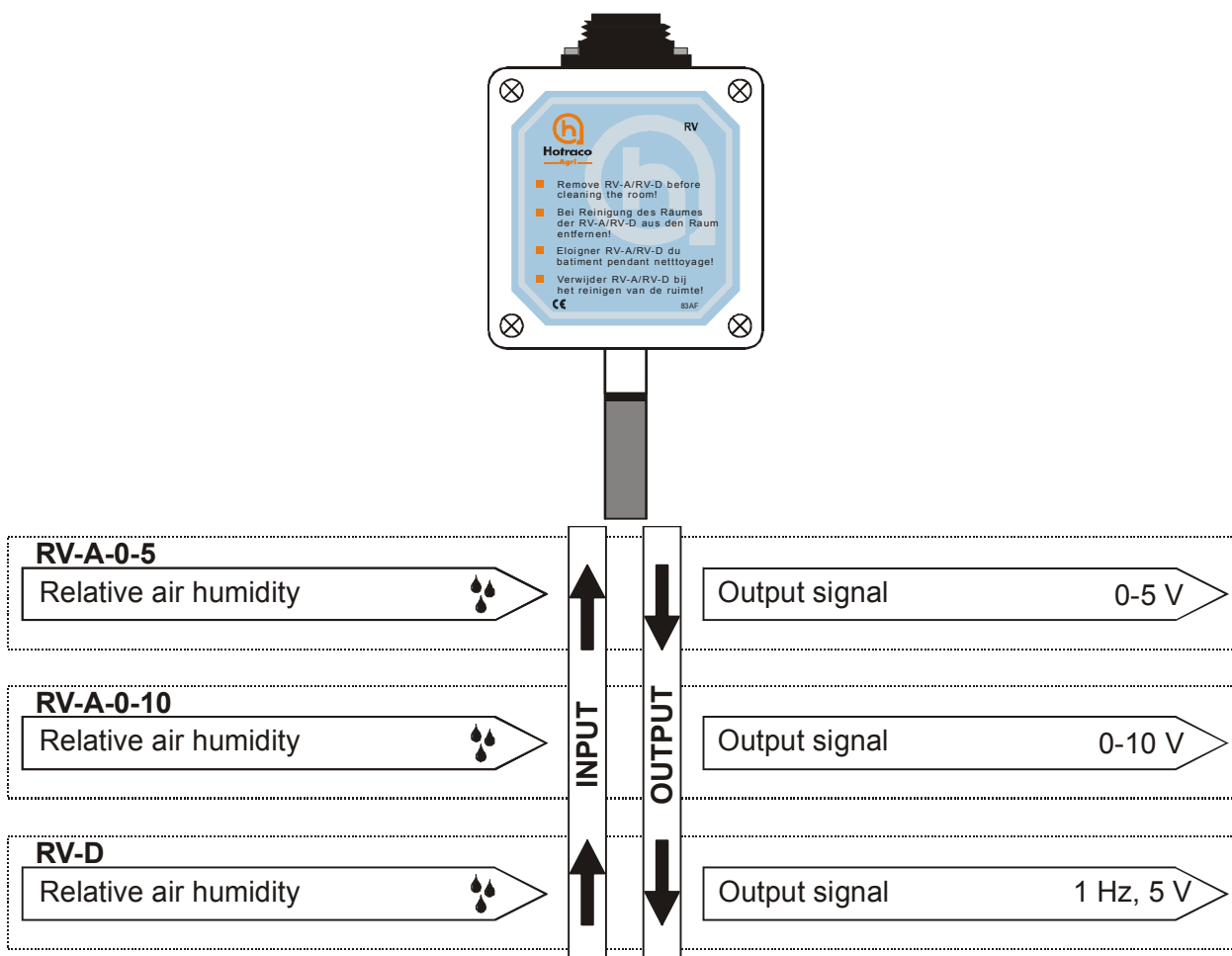
Humidity sensor

General

The RH-sensor measures the relative air humidity in a room and converts it into an electrical signal. This signal can be used, by means of a climate computer (Orion or Sirius), to guard the humidity. If necessary, the climate computer can control a humidifying unit and / or adapt the ventilation.

Three different types of RH-sensors are available

- RV-A-0-5 Output signal is 0 - 5 Volt
- RV-A-0-10 Output signal is 0 - 10 Volt signal
- RV-D Output signal is a 1 Hz, 5 Volt (tt) signal



Technical specifications

Electrical

Power supply	: +12...+24 Vdc \pm 20%
Power consumption	: 10 mA
Output signal	: 0...5 V (RV-A-0-5)
	: 0...10 V (RV-A-0-10)
	: 1 Hz, 5 Vtt (RV-D)
Output current	: max. 1 mA
Maximum cable length	: 100 m (0,75 mm ² + shield)

Relative air humidity

Measuring range	: 0...100% RH
Accuracy at 20°C	: \pm 3%
Hysteresis	: 1,5%
Working temperature	: -10...+ 55 °C

EMC

Emission	: EN50081-1
Immunity	: EN50082-1

Complies with EC directives

EMC	: 2004 / 108 / EC
Low tension	: 2006 / 95 / EC

Mechanical

Sensor protection	: Sintered dust filter
Dimensions (H x W x D)	: 220 x 82 x 85 mm
Encasing	: IP 52
Weight	: approx. 210 gr