

# RTF-6 / RTFC-6 SENSOR



## Your environmental system is only as good as the sensor

### **Highlights**

- Precise measurements
- Reliable operation and easy inspection
- Long lifetime from quality sensors
- Virtually maintenance-free

For many years, Senmatic has specialized in high quality sensors and environmental control, and has always been acknowledged for high quality sensors. Now, a new generation has been developed.

### **Combined sensor**

It is possible to have a combined temperature, humidity and also  $CO_2$  sensor. Combined sensors ensure that the weather conditions are measured in the same spot. Therefore, when combined in the climate control calculations, the different measurements are comparable. One sensor is used for each compartment. The sensor is aspirated. The air surrounding the crop material is sucked through the sensor, giving precise and instant measurement of the microclimate.

### Temperature, humidity and CO<sub>2</sub>

The temperature sensor has a surface relation to the mass that gives the best possible reaction time on temperature deviations. The humidity sensor is fully electronic, and the electronics have a Teflon filter protecting the open chip and preventing droplets by high humidity. The reading is constant over many years, and even if exchanged no calibration is needed. The sensor is maintenance-free. The  $CO_2$  sensor is working with infrared absorption. The reading is very precise and constant over long time. Must be calibrated only once a year.

The dry/wet sensor uses a well-known physical principle, where the temperature of a dry and a wet sensor makes it possible to calculate the humidity. The reading is very precise, even in almost 100 % relative humidity. The sensor has to be filled with water twice a month.





### SPECIFICATIONS / RTF-6 / RTFC-6 SENSOR

## **Technical specifications - RTF-6 Temperature and Humidity Sensor**

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Measuring range	From -10 to +60° C (from -13 to +140° F)
Tolerance tem- perature	±0.3° C (0 - 50° C) ±0.6° F (32 - 122° F)
Measuring area humidity	10 - 100 % RH
Tolerance humidity	±3 % RH (40 - 100 % RH)
Reaction time	About 15 seconds with filter
Supply voltage	24 V AC / 24 V DC +10 % / -15 %. 50/60 Hz

### **Physical specifications**

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Dimensions H x diameter	320 x 200 mm (12 x 8")
Weight	1.9 kg (RTF-6) / 2.1 kg (RTFC-6)
Proofing	IP42
Temperature	0 - 45° C (32 - 122° F) without direct sun radiation
Humidity	0 - 100 % RH without condensation
Emission	EN50081-1
Immunity	EN50082-1

# Technical specifications - RTFC-6 Temperature, Humidity and $\text{CO}_2$ sensor

Measuring range	From -10 to +60° C (from -13 to +140° F)
Tolerance tem- perature	±0.3° C (0 - 50° C) ±0.6° F (32 - 122° F)
Measuring area humidity	10 - 100 % RH
Tolerance humidity	±3 % RH (40 - 100 % RH)
Reaction time	About 15 seconds with filter
Measuring area CO <sub>2</sub>	0 - 2000 ppm
Tolerance CO <sub>2</sub>	±100 ppm (0 - 50° C) / (32 - 122° F)
Reaction time	Max. 300 sec.
Supply voltage	24 V AC / 24 V DC +10 % / -15 %. 50/60 Hz

#### **Distributor:**

### **Penny UK Ltd**

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