



# RTF-6 / RTFC-7 SENSOR

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



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

For many years, DGT by 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<sub>2</sub> sensor.
- The 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<sub>2</sub> sensor is working with infrared absorption.
- The reading is very precise and constant over long time.
- The sensor must be calibrated only once a year.



## SPECIFICATIONS / RTF-6 / RTFC-7 SENSOR

### Technical specifications

#### RTF-6 Temperature and Humidity sensor

|                          |  |
|--------------------------|--|
| Measuring range:         | From -10 to +60° C<br>(from -13 to +140° F)  |
| Tolerance temperature:   | ±0,3° C (0 - 50° C)<br>±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 +10 % / -15 %<br>50/60 Hz            |

### Physical specifications

|                          |   |
|--------------------------|---|
| Dimensions H x diameter: | 320 x 200 mm (12,8")                                    |
| Weight:                  | ±0,3° C (0 - 50° C)<br>±0,6° F (32 - 122° F)            |
| Proofing:                | IP42  |
| Temperature:             | 0 - 45° C (32 - 122° F)<br>Without direct sun radiation |
| Humidity:                | 0 - 100 % RH<br>Without condensation                    |
| Emmission:               | EN50081-1   |
| Immunity:                | EN50082-1   |

### Technical specifications

#### RTFC-7 Temperature, Humidity and CO<sub>2</sub> sensor

|                                  |  |
|----------------------------------|--|
| Measuring range:                 | From -10 to +60° C<br>(from -13 to +140° F)    |
| Tolerance temperature:           | ±0,3° C (0 - 50° C)<br>±0,6° F (32 - 122° F) b |
| 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) /<br>(32 - 122° F)        |
| Reaction time:                   | Max. 300 sec                                   |
| Supply Voltage:                  | 24 V AC +10 % / -15 %<br>50/60 Hz              |
| Supply Voltage CO <sub>2</sub> : | 24 V AC +10 % / -15 %                          |

**Distributor:**

**Contact details:**

DGT by Senmatic  
Phone: +45 64 89 22 11  
dgtsales@senmatic.com - www.senmatic.dk

Version: 09112023

**Head office:**

Senmatic A/S - Industrivej 8 - DK-5471 Søndersø