

## Sempleta

### For control of room temperatur and shade

Sempleta is a simple climate control with 2 functional areas, that is control of room temperature and control of shades.

Sempleta has been developed for small greenhouses and the Sempleta has to be connected to the enclosed temperature sensor or as an alternative to a climate sensor RT10 and a photoelectric cell RF12 in order to control the functions.

The Sempleta contains a simple menusystem. By means of the mode-buttons the functions related to temperature or luminosity can be selected. By activation of the Aut./Man. button automatic or manual operation is selected.

#### **Automatic control**

Set the Sempleta in automode by means of the Aut./Man. button and use the mode-button to select automatic temperature control. Use the arrow-buttons to set the desired room temperature.

The Sempleta is now controlling the air temperature by opening and closing up to 2 sets of windows by means of tubular motors or gearmotors. The opening/closing of windows is done in pulses. After window activation the Sempleta makes a pause to await the effect of the opening/closing. If the difference between the desired and measured temperature is too high, a possible pause will be aborted and a pulse of extra length will be initiated.



Automatic light control is adjusted by means of the Mode-button and using the arrow-buttons the desired luminosity level is set. The sun radiation is measured by the attached photometer and the luminous level indicated when the screens are to be closed. The screens are also operated by tubular motors or gearmotors.

The adjusted time intervals for pulse and pause of opening and closing the windows can be changed by using the arrow-buttons. The pulse time, that is the activation time of the windows, can be set from 0.2 sec. and upwards in 0.2 sec. steps.

The pause interval is adjustable in the range 0 sec. to 10 min. depending on the size of windows and greenhouse. The pause set is the maximum time the window will pause after movement.

#### **Manual operation**

Switch to manual operation with the Aut./Man. button. Choose either manual screen or window control with the mode button and force the attached functions to desired position using the arrow buttons.

Press the Aut./Man. button to return to automatic operation.

#### **Forced closing of windows / screens**

Switch the Sempleta to automode. Choose temperature or light control with the mode button. Press and hold down the mode button for 2 seconds. Adjust the desired time interval for forced closing. The time interval of forced closing can be adjusted up to 24 hours.

<b>Electrical:</b>	
Supply	230 VAC
Inputs	<p>Temperature sensor (included) or RT10. Photosensor LF2.</p> <p>*Forced closing: Gale / Rainsensor (24VDC On/Off)</p> <p>*Forced opening: E.g. firealarm (24VDC On/Off)</p> <p>*Installation require skilled craftsmen.</p>
Outputs	<p>2 window motor relays*. (Run in parallel) 1 screen motor relay*.</p> <p>Maximum load 2A, 230 VAC. Motors with limit switch required. We recommend that motors without thermal cutout are connected with a overload protection</p>
<b>Physical:</b>	
Casing:	Impact-proof plastic box.
Dimensions L x W X D:	<p>200 x 150 x 80 mm without connectors. 200 x 160 x 80 mm with connectors.</p>
Weight:	ca. 1,5 kg.
Tightness	IP 54
<b>Environmental specifikations:</b>	
Temperature	0-50 °C
Humidity	0-95 % RH without condensation.

**Distributor:**

**Head office:**

**Senmatic A/S**  
 DGT Volmatic  
 Industrivej 8 - DK-5471 Sønderø,  
 Denmark  
 Phone: +45 64 89 22 11  
 Fax: +45 64 89 33 11  
[dgt@senmatic.com](mailto:dgt@senmatic.com) - [www.senmatic.com](http://www.senmatic.com)