



GSC-4

Easy step controller for switching on extra fan capacity

- Suitable for foil greenhouse tent tunnels and other greenhouses
- Controls up to 4 ventilation groups
- Controls heating, cooling, ventilation, RH and recirculation
- Has a duty cycle to further reduce minimum ventilation
- Current temperature and internal RH at a glance
- Built-in alarm function

GSC-4 easily and efficiently controls 4 ventilation groups

This 'Greenhouse Step Controller' is a stepwise controller to switch on extra fans in foil greenhouse tent tunnels, poultry houses or similar applications. To simplify operation, the GSC-4 switches heating, cooling and ventilation based on fixed programmed points. In order to be able to further reduce the minimum ventilation level, you can control the first step by using the duty cycle. The GSC-4 also has an RH sensor input that switches off the cooling operation if the RH measured exceeds a preset value.



Technical specifications GSC-4

General

- 230Vac-50/60Hz supply voltage
- 25VA load
- dimensions: 215 x 225 x 120 mm
- ABS housing
- protection category IP-54
- min. ambient temp.: -5°C
- max. ambient temp.: 40°C

Inputs

- 1 RH sensor; 0-10Vdc
- 1 outside temperature sensor
- 2 indoor temperature sensors

Outputs

- 1 relay output, 230Vac/2A, for cooling
- 1 relay output, 230Vac/2A, for heating
- 1 relay output, 230Vac/2A, for recirculation
- 4 relay outputs, 230Vac/2A, for ventilation
- 1 error relay, 24Vdc/2A

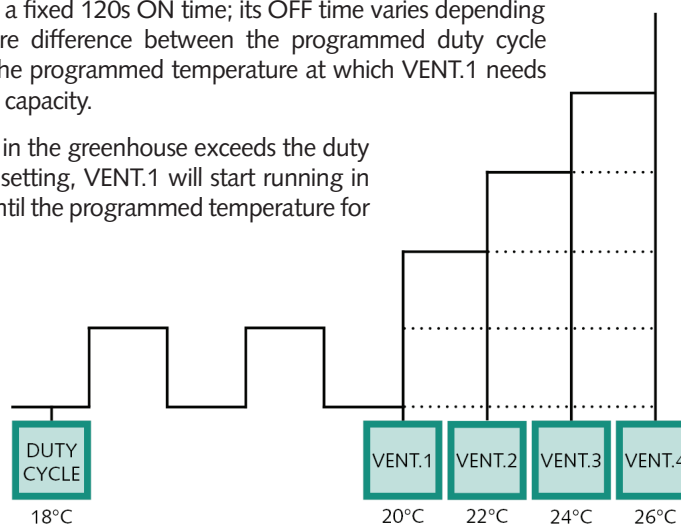
Option

- communication via RS-485 PCB

GSC-4 step control

The duty cycle has a fixed 120s ON time; its OFF time varies depending on the temperature difference between the programmed duty cycle temperature and the programmed temperature at which VENT.1 needs to switch on at full capacity.

If the temperature in the greenhouse exceeds the duty cycle temperature setting, VENT.1 will start running in duty cycle mode until the programmed temperature for VENT.1 is reached.



ECO-Prop: recirculation fan for greenhouse horticulture

The main benefit of the ECO-Prop is its high energy efficiency. Its large diameter enables the ECO-Prop to displace the same amount of air as conventional fans, but at a much lower speed. The major advantages are:

- less turbulence around the fan, preventing fruit shedding,
- energy savings of over 50%



The EMF is covered in wire mesh or plastic sheeting and can be accurately controlled using the Stienen MPM-5 or SPM-6/12 power controller or a frequency controller.

