

Speed controller for AC fans

Legal prescriptions

Please first read the user manual completely before installing and starting up the device.
 The installation must be carried out by a professional installer in respect of applicable safety prescriptions.
 This manual is to be delivered to the end user and carefully attached to the electrical installation file.
 On installation, following items should take into account before using (non-restrictive list):

- Applicable legislation and standards
- The state of the art in technology and installation at time of installation
- The prescriptions of this manual

In case of doubt contact your supplier.

Installing and Operating

Installation

The speed controller, in built in or apparent versions, is of protection class IP20. They can only be mounted in an environment where IP20 class is sufficient.
 In the case of apparent mounting double insulation standard must be respected. The mounting is thus forbidden on a conductible surface. In the case of a built in mounting the speed controller must be installed in a cavity of minimum 40mm depth.

For the (dis)assembly of the front panel, it is necessary to remove the turnknob. (Un)screw the nut with the plastic tool included in the delivery. The front panel must be mounted before power supplying the speed controller. Operating without front panel is strictly forbidden. To avoid damaging the plastic thread of the casing when tightening the bolt, first rotate it anticlockwise to make sure bolt and thread are well fitted. Do not force nut into thread, nor apply unnecessary pressure, it will damage the thread.

In case of apparent mounting, it is important to consider the location of the power cable. The cable can only enter the housing from the upper part, where there is sufficient space and where the connectors are located.

Speed controller supplied can be either wall mounted (with casing) or embedded in the wall (remove casing and use set screws delivered)

During mounting and wiring special precautions should be taken to avoid contact and fire hazard.

Cooling

Cooling of the ES is essential for a normal life expectancy. The ES is designed to operate in nominal ambient temperature of 25°C.

Caution

The ES speed controller do not insulate the fans from the power supply. All the components remain powered even when shut down.

Operating 'turnknob' models

The fan is shut down when while turning the knob counterclockwise a 'click' is heard, the 2 marks on the knob and on the front panel are then aligned. Then by turning the knob clockwise the fan will start at maximum speed and its speed will reduce as the knob is rotated. The shape of the front panel intuitively suggests this.

Operating 'pushbutton' models

The fan is shut down or started when the button is pressed until a 'click' is heard. If the fan is 'on' the rotation path of front panel is illuminated. Then by turning the knob counterclockwise the fan will increase its speed and otherwise by rotating the knob clockwise it will reduce its speed. The shape of the front panel intuitively suggests this.

Setting the minimum speed

1. The fan is connected properly and running.
2. Turn the knob clockwise until the knob is stopped (corresponds to minimum rotation position).
3. Remove the knob by pulling it upwards.
4. Locate the 'minimum' setscrew on the front panel (see drawing x below) and set minimum by turning the screw clockwise (to reduce) or counterclockwise (to raise) until desired minimum airflow is reached.
5. Fan must always be 'on' while setting the minimum speed.

Maintenance

Regularly turn off the power supply and remove speed controller from its housing. Then:

Check that connectors and wires are properly tightened.

Check that the device is properly cooled.

Remove dust from cooling vents if any.

The fuse is only accessible when front panel is removed (with special tool delivered). If necessary, replace the fuse by a fuse with the same specification (F2AH).

Technical data

Models 010008 - 010015 - 010022

- Amin.: 150mA
- Amax : 1,5A
- weight : +/- 150g
- operating power supply : 230V~ 50Hz
- user set minimum operating speed
- built in removable F2AH
- automatic shutdown in case of overheating
- radio-interference as per EN 60669-2-1 et CISPR 14
- nominal ambient temperature: 25°C

Models 010001

- Amin.: 300mA
- Amax : 3A
- weight : +/- 190g
- operating power supply : 230V~ 50Hz
- user set minimum operating speed
- built in removable F4AH
- automatic shutdown in case of overheating
- radio-interference as per EN 60669-2-1 et CISPR 14
- nominal ambient temperature: 25°C

The technology used generates higher frequencies components on the power supply. To avoid radio disturbances a filter is included in the speed controller.

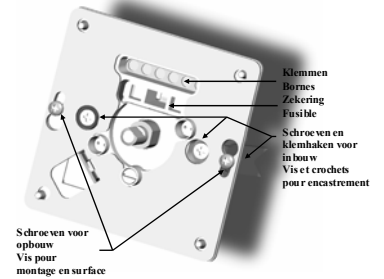
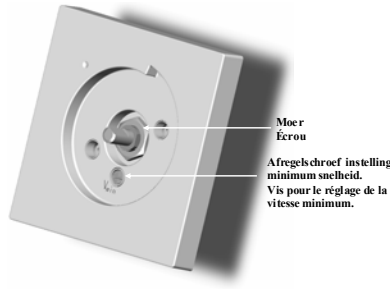
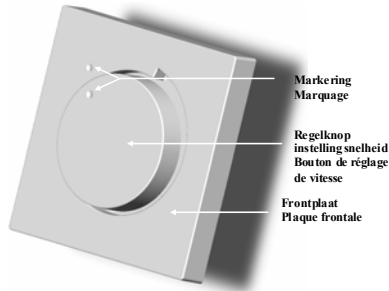
Thermal protection in case of overheating

In case of overheating of the speed controller caused by an overcapacity or insufficient ventilation the device will automatically switch to the 'minimum' speed. When the temperature has sufficiently dropped the fan speed will rise again to the pre-set value.

Otherwise the speed controller will shut down. In this case, the speed controller needs to be resetted in order to restart. To do this press the button off (in case of pushbutton version) or turn the knob off (in case of turnknob version).

Guarantee

Guarantee is of 12 months as from delivery date, the invoice date is used as delivery date unless otherwise proven. Otherwise, the manufacturing date is used. If the product delivered is not compliant to specifications it must be returned to the supplier within 2 months of the delivery. If failure is proven the product will be repaired or replaced by supplier. The supplier cannot be held responsible of failures due to faulty installation or misuse of the product.



Aansluitschema – Schéma de raccordement

