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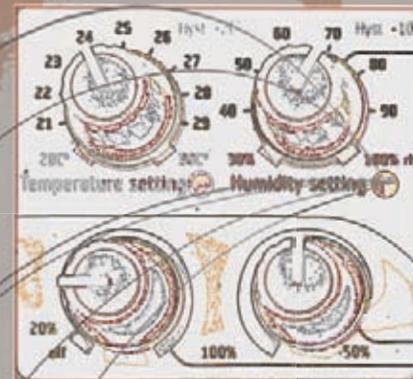
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## Temperature and minimum speed controller



- Minspeed Controller setting
- Temperature setting

The minimum speed controller is a temperature reading speed controller for ventilated rooms with one or more exhaust fans. The ventilation controller keeps the temperature constant and will run at a constant user defined minimum speed. It is simple to use; the desired temperature and the minimum speed set on two controls on the casing.

The controller is supplied as a unit and is ready for use. The unit comes complete in a waterproof housing with hinged lids, compatible mains sockets and a digital low voltage sensor; making it the perfect controller for humid rooms. The low voltage sensor is supplied with a 4-meter-long cable which can be extended up to 50 meters if needed.

### Sizes and technical data:

Housing: WxHxD = 130x80x70mm

Fan controller: WxHxD = 145x100x90mm

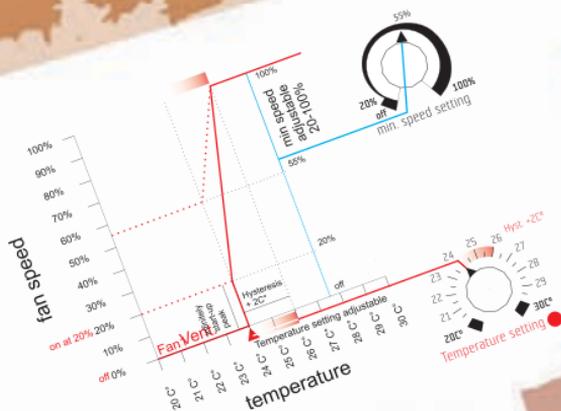
Designed for: 1x600W / TRIAC 1x16A

Voltage: 230V / 50Hz

Digital Sensor: 5V, Measures temperatures from -55 ° C to +125 ° C (-67 ° F to +257 ° F)

0.5 ° C accuracy from -10 ° c to +85 ° C

Protection class: IP44



## Digital fan controller, temperature, min/max speed, Hysteresis controller



- Minspeed Controller setting
- Maxspeed Controller setting
- Hysteresis adjustment
- Temperature setting

This temperature, minimum, maximum, Hysteresis controller is a temperature gauging speed controller for ventilated rooms with one or more exhaust fans.

The ventilation controller keeps the temperature constant and keeps the fan speed within set minimum and maximum speeds.

The hysteresis defines the temperature range. It is easy to use; with the desired temperature, minimum speed, maximum speed and Hysteresis set at four knobs on the outer casing.

The controller is supplied as a unit and is ready for use. The unit comes complete with a waterproof housing, compatible mains sockets with hinged lids and a digital low voltage sensor; making it the perfect controller for humid rooms.

The sensor is supplied with a 4-meter-long cable and can be extended up to 50 meters if required.



### Sizes and technical data:

Housing: WxHxD = 130x80x70mm

Fan controller: WxHxD = 145x100x90mm

Designed for: 1x600W / TRIAC 1x16A

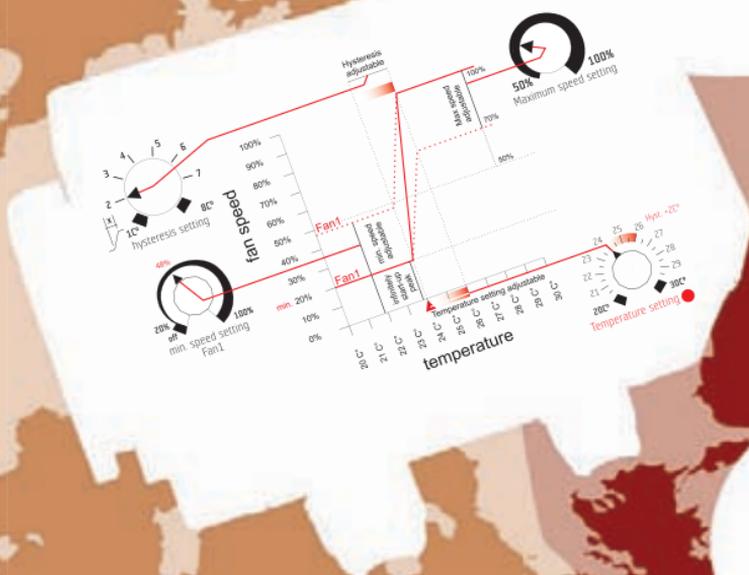
Voltage: 230V / 50Hz

Digital Sensor: 5V, Measures temperatures from

-55 °C to +125 °C (-67 °F to +257 °F)

0.5 °C accuracy from -10 °C to +85 °C

Protection class: IP44



## Temperature and negative pressure controller



- Vacuum setting
- Minspeed Controller setting
- Temperature setting

This vacuum regulator is a temperature measuring speed controller for ventilated rooms with supply and ex-air fan.

The ventilation controller keeps the temperature and the pressure constant and can prevent unwanted odours.

It is easy to use; the desired temperature, minimum pressure and the vacuum adjusted by three controls on the unit. The controller can also be operated with just an exhaust fan when there is an alternative method for air-in.

The controller is supplied as a unit and is ready for use. The unit comes complete in a waterproof housing, with compatible mains sockets with hinged lids and a digital low voltage sensor, which makes it the perfect controller for humid rooms.



### Sizes and technical data:

Housing: WxHxD = 130x80x70mm

Fan controller: WxHxD = 160x100x90mm

Designed for: 2x600W

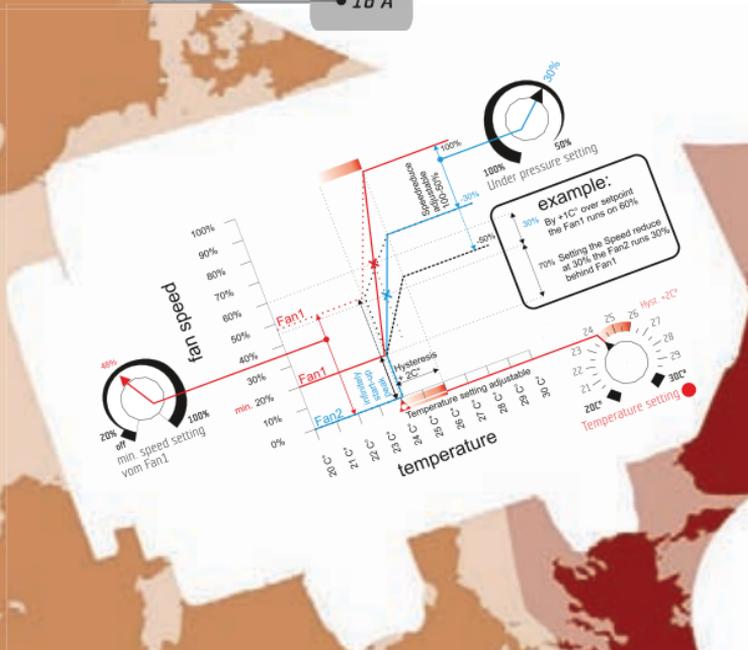
Voltage: 230V / 50Hz

Digital Sensor: 5V Measures temperatures

from -55 °C to +125 °C (-67 °F to +257 °F)

0.5 °C accuracy from -10 °C to +85 °C

Protection class: IP44



## Digital fan controller humidity & temperature control



- Vacuum setting
- Humidity setting
- Minspeed Controller setting
- Temperature setting

The humidity and temperature controller is a humidity and temperature dependent speed controller for ventilated rooms with inward and outward air fans.

The controller maintains ventilation, prevents moisture by keeping both temperature and pressure constant and thus reduces odours.

It is easy to use; the desired moisture, temperature, minimum speed and the pressure are set using four controls on the unit.

This unit can also be operated with just an exhaust fan when the air is expelled directly to the environment.

The controller is supplied as a unit and is ready for use. The unit comes complete in a waterproof housing, with compatible mains sockets with hinged lids and a digital low voltage sensor, which makes it the perfect controller for humid rooms.

The sensor is supplied with a 4-meter cable.



**Sizes and technical data:**

Housing: WxHxD = 130x80x70mm

Fan Controller:

WxHxD = 160x100x90mm

Designed for:

2x600W / TRIAC 2x16A Fans

Voltage: (Mains) 230V / 50Hz

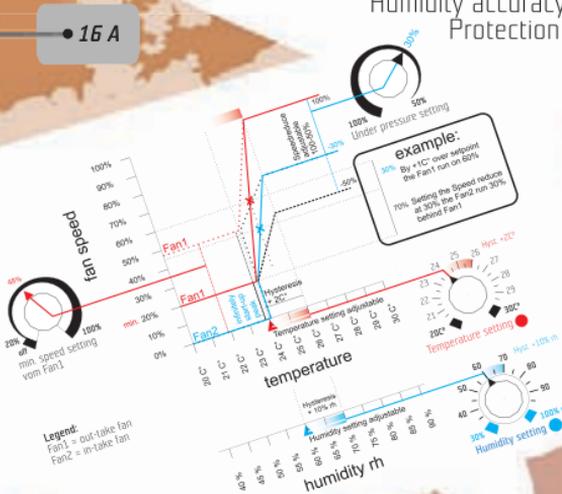
Digital Sensor: 5V Measures temperatures from -55 °C to +125 °C

(-67 °F to +257 °F)

0.5 °C accuracy from -10 °C to +85 °C

Humidity accuracy ± 4.5% RH

Protection class: IP44



## Step transformer controller 2,5 A / 8 A



- Hysteresis
- Temperature settings

The step transformer controller have the special characteristic that the ventilators make no noise "hum" in the lower rotation.

The step transformer control the fan speed from self 6-step up/down according the temperature. Temperature as Hysteresis [sensitivity] can be set on two knob's.

The controller comes as a finished part and is ready to use. This reliable fan controller comes complete with a sealed water resistant cover, plugs with flap-lids and a low voltage sensor making it perfect for humid rooms. The sensor comes with a 4meter long cable and can be extended up to 50meters.

#### Sizes and technical data's:

Case: WxHxD = 200x250x180mm

Controller: WxHxD = 265x300x205mm

Designed for: 2,5A

Volts: 230V / 50HZ

Digital sensor 5V Measures temperatures  
from -55°C to +125°C

(-67°F to +257°F)

0.5°C accuracy from -10°C to +85°C

Protection class: IP44

## Timer box 4 x 600 W Timer box 6 x 600 W + heating

The timer box manages several inductive loads such as high pressure lamps simultaneously. It is a well-engineered contactor based control system for up to 12x600W inductive loads.



Timer box with heating socket is intelligent.  
It only heats when your lamps are off  
(Powermanagement)

Timer box 8 x 600 W  
Timer box 8 x 600 W + heating

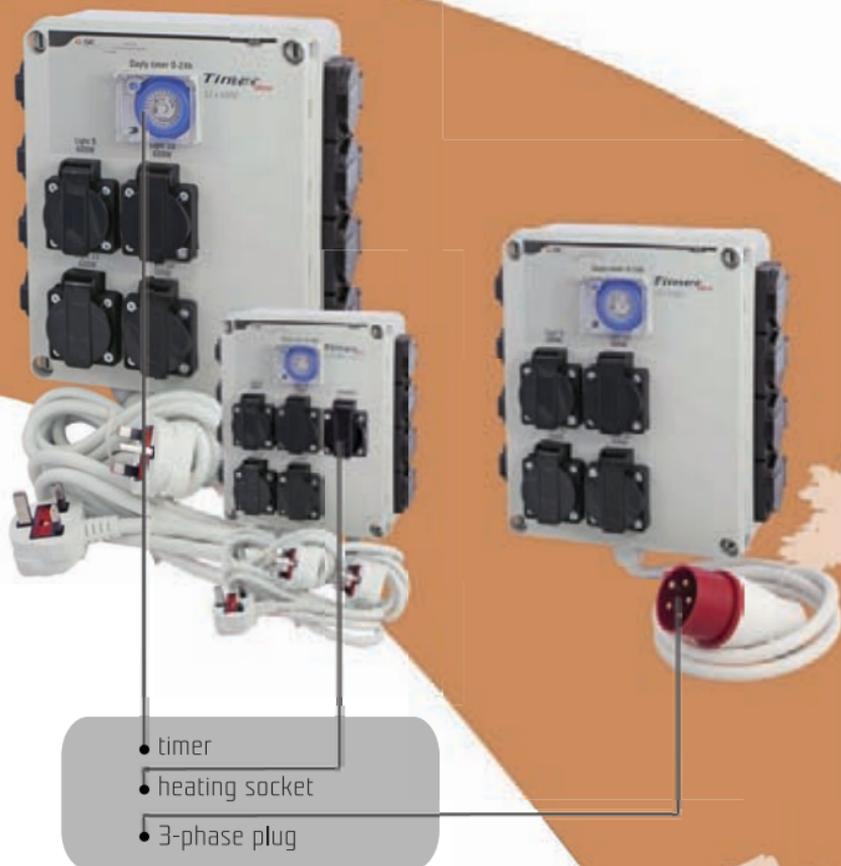


**Sizes and technical data:**

Housing: WxHxD =  
200x255x95mm  
Timerbox: WxHxD =  
230x300x110mm  
Voltage: 230V / 50Hz or 400V  
/ 50Hz  
24 hour timer with 36h power  
reserve. 30min. Setting  
Contactor: 4x16A 230V  
Protection class: IP40

## Timer box 12x600 W (3 phase) Timer box 12x600 W + heating (3 phase)

The timer box manages several inductive loads such as high pressure lamps simultaneously. It is a well-engineered contactor based control system for up to 12x600W inductive loads.



Timer box with heating socket is intelligent. It only heats when your lamps are off (Powermanagement)

## Irrigation timer

The Irrigation timer is used to control a pump to irrigate crops. This timer is ideal for scheduled Ebb & Flow systems and normal irrigation droplets or NFT systems.

The pulse time and the interval time can be set separately for day and night irrigation. Depending on the model, the day/night switch on a photocell, or the power input is controlled.



- photocell
- day
- night

**Sizes and technical data's:**  
Size: WxHxD = 34x58x86mm  
Weight: 86g  
Volt: 230V / 50Hz  
I max. = 2A  
Protection class: IP20

## Water timer 8A



- Night/ Interval
- Night/ Impuls
- Day/ Interval
- Day/ Impuls

The irrigation timer is used to control a pump for irrigating crops.

This timer is ideal for scheduled Ebb & Flow systems and normal irrigation droplets or NFT systems.

The pulse time and the interval time can be set separately for day and night irrigation. The unit comes complete in a waterproof housing with hinged lids, compatible mains sockets and a built in light sensor with 4m low voltage cable which detects day/night-time; making it the perfect controller for humid rooms.



**Sizes and technical data:**  
Housing: WxHxD = 130x80x70mm  
Irrigation timer: WxHxD = 145x100x90mm  
Designed for: 1800W BA (ind. 3A)  
Voltage: 230V / 50Hz  
Protection class: IP44

# Relaybox



## Relay box 8x600W on two circuits

The relay-box switches two independent power circuit on and off. It get commanded over a third power cord which need to be plugged in a commercial timer-switch or GSE timer box. Each power circuit can handle 4x600W (total 8x600W lights).

### Sizes and technical data's:

Case: WxHxD = 180x130x60mm  
Timer box: WxHxD = 160x100x90mm  
Volt: 2x230V / 50Hz  
Relays: 4x16A 230V  
Protection class: IP44

## Digital controller, humidification / de-humidification regulator 8A



- hysteresis humidifier / dehumidifier
- humidity settings

The humidifier regulator serves rooms under constant humidity to keep their humidity stable.

The unit is interposed between a humidification (fogger) or dehumidifier unit and a wall outlet. There are two control buttons to set the desired humidity and the consumer-type choosing the hysteresis. The controller is supplied as a unit and is ready for use. The unit comes complete in a waterproof housing, with compatible mains sockets with hinged lids and a digital low voltage sensor, making it the perfect controller for humid rooms.

The sensor is supplied with a 4-meter cable.

#### Sizes and technical data:

Housing: WxHxD = 130x80x70mm

Humidity Controller:  
WxHxD = 160x100x90mm

Power requirements: (Mains) Voltage: 230V/50Hz,  
8Amp

Digital Sensor: 5V Measures temperatures from -55 °C  
to +125 °C

(-67 ° F to +257 ° F) 0.5 ° C accuracy from -10 ° C to  
+85 ° C

Humidity accuracy ± 4.5% RH

Protection class: IP44

# SMS Alarm Controller



• Motion

• RED magnet contacts

• Temp. & Humidity sensor

Port 1  
Port 2  
Port 3  
Port 4  
Port 5  
Port 6  
Port 7  
Port 8  
Port 9  
Port 10  
Port 11  
Port 12

The controller is an easy-to-use standalone alarm system with alarm output via SMS.

The device provides ten independent input / output ports. By virtue of its many sensors and its individual terminal assignment, the controller meets all requirements. The controller offers additional functions such as the option to store a second phone number and to switch any standard 230 V device on or off via SMS.

#### Alarm via SMS

- Smoke detector
- Motion detector
- Water sensor
- Temperature / RH monitoring
- Magnetic contacts (for windows, doors, etc.)
- Power failure
- GSE over-temperature timer box
- External alarm system
- Switched connector
  - gas sensor
  - glass break sensor
  - siren alarm

#### Functions:

- Automatic sensor detection at each of the ten ports.
- Data transmission security adjustable from normal to encoded
- SMS control of up to ten 230 V multi-socket outlets
- Minimum and maximum temperature and air humidity adjustable via SMS.
  - Storage for up to two phone numbers
  - Retrievable controller status
  - Language selection German / English
- Adjustable delay time (0 ... 180 seconds) before alarm is armed
- Use of external key switch is possible

#### Sizes and technical data's:

Power adapter: 100 - 240 V / 50 - 60 Hz  
Supply voltage: 12 VDC +/- 10 %  
Supply current: Min. 500 mA  
Temperature range: 10 °C to 50 °C  
Humidity range: 0 % to 95 %  
GSM frequencies: 900 / 1800 / 1900 MHz  
Dimensions (L x W x H): 80 x 140 x 78 mm

