

Air quality controller

Type ACL Ref. no. 0492

Area of application

- Electronic air quality controller to control:
 - 1 ph. fans up to max. 1 A.
 - 3 ph. fans via contactor.
- For ventilation systems in conference rooms, restaurants, shops, manufacturing plants, living/meeting rooms.

Function

- On and off operation of one or a number of fans in relation to the room's air quality.
- The unit has an integrated sensor which reacts on oxidable gases and pollutants such as carbon monoxide, alcohol, formaldehydes, benzene, solvents, methane, tobacco etc.

Possible settings

- The unit switches the fan on if the set value is exceeded or if the concentration rises quickly.
- Adjustable (from outside) overrun timer after the sensor has switched off.
- Indicator lamp for operation type (automatic/manual) and fan operation and overrun time.
- Functional and operational switch on the front casing

Technical data

Voltage	230 V, 1~, 50/60 Hz
Overrun time, adjustable	1 – 10 min.
Power-up delay	approx. 5 sec.
Current	2 A (ind.)
Protection class	IP 30
Dim. mm	W 125 x H 75 x D 30
Weight approx.	0,2 kg
Wiring diagram no.	SS-485,1

Casing

Compact casing with air exchange slots, made of light grey polymer, for surface installation.



Electronic air flow monitor

Type SWE Ref. no. 0065

Area of application

To monitor air flow in ducting. Open or closed circuit principles are available as options.

Function

The air flow sensor (connected to controller) registers the air flow and compares it with the preset value. That can be set on the front side of the control unit (in the range of 1 – 20 m/s). The relay contacts if the set

value is reached or exceeded. Two LED's show UN and the position of the output relay. It is possible to connect an external failure display via a relay output (1 change-over, voltage free, max. current 5 A / AC 250 V).

Installation

Control unit suitable for mounting in switch cabinet for fixing on a 35 mm support rail. Air flow sensor with mounting rosette for in-duct installation with cable (length 2.5 m; up to

max. 10 m extendible), that is to be connected to the control unit.

Technical data

Voltage	230 V, 1~, 50/60 Hz
Current	5 A (ind.) cos φ 0.4
Setpoint adjustment range	1-20 m/s
Air flow temperature	max. 60 °C
Ambient temperature	max. 60 °C
Protection class	IP 20
Dim. mm	W 35 x H 90 x D 66
Sensor length mm	140
Weight	approx. 0,4 kg
Wiring diagram no.	SS-689,1



Mechanical air flow monitor

Type SWT Ref. no. 0080

Area of application

Mechanical air flow monitor with adjustable trigger power to monitor the minimum air flow velocity in ducting minimum diameter 315.

Design

Robust design with a paddle made of high-grade steel and supplied with mounting plate to fix the unit outside of the ducting.

Function

- Can be used as a switch to make or break circuit connections.
- The unit can be set to respond if a minimum or maximum air flow velocity is achieved.
- Adjustable minimum air flow velocity:
 - Lower than approx. 1.5 m/sec.
 - Higher than approx. 3 m/sec.

Installation

Unit must be installed in a way that the weight of the paddle does not affect the spring mechanism inside the unit.

Technical data

Voltage	24-230 V AC, 50/60 Hz
Current	15 (8) A (ind.)
Air temperature limits	-40...+ 85 °C
Protection class	IP 65
Dim. mm	
– Paddle	W 55, L 200, D 0.15
– Casing	W 140 x H 65 x D 62
Weight	approx. 0,4 kg
Wiring diagram no.	SS-557,1



Differential temp. controller

Type EDTW Ref. no. 1613

Area of application and advantages

- Electronic, stepless differential temperature controller for connection of electronically controlled
 - Ceiling fans and all
 - 1 ph. fans.
- For continuous speed control in relation to the temperature difference.
- Designed for use in combination with ceiling fans or fans which move the room air towards the floor to save heating energy. The unit optimises the difference between the floor and ceiling temperature.

Function

- Stepless speed control between (0 – 100%) in relation to the temperature difference between both temperature sensors and the equalisation with the setpoint specification.
- Includes temperature sensors with a flying lead (1 x 10 m long, for mounting below the ceiling; 1 x 2 m long, for mounting above the floor.
- If the temperature difference rises the fan speed increases proportionally and slows down for decreasing temperatures.
- Proportional range can be adjusted steplessly from 1–10 K.

Technical data

Voltage	230 V, 1~, 50/60 Hz
Current max.	2.5 A (T 40 E)
Adjustable control range	1 – 10 K
Protection class	IP 20
Dim. mm	W 210 x H 85 x D 55
Weight approx.	0,7 kg
Wiring diagram no.	SS-438

Possible settings

- On/off (with function display)
- Automatic/manual operation.
- Reverse of air flow direction.
- Proportional range.
- Summer operation: as manual speed controller. Depending on the fan type, motor humming might be produced.



Casing

Impact-resistant white polymer, for surface and flush mounting.