

ACL



Air quality controller

ACL Ref. no. 00492

Area of application

- Electronic air quality controller for controlling:
 - 1~ alternating current fans
 - 3~ three-phase current fans using a contactor.

- For ventilation systems in conference rooms, restaurants, shops, production facilities, residential/community rooms.

Function

- Activation and deactivation of one or more fans depending on room air quality.

- The integrated sensor in the unit reacts to the oxidisable gases and odorous substances in the room air, such as carbon monoxide, alcohol, formaldehyde, benzene, solvents, methane, tobacco, etc.

Setting options

- Switching occurs when an adjustable setpoint is exceeded or a sharp increase in air pollution.
- Deactivation time with adjustable turn-off delay (adjustable from outside).
- Indicator light for operating mode (automatic/manual), fan operation and turn-off delay period.
- Function and operating mode switch on front of casing.

Casing

Flat casing with air exchange slots, made of light grey plastic, for surface-mounted installation.

Technical data

Voltage 230 V, 1~, 50/60 Hz
 Turn-off delay time, adjust. 1 – 10 min.
 Turn-on delay approx. 5 sec.
 Load capacity 2 A (ind.)
 Protection category IP30
 Dim. mm W 125 x H 75 x D 30
 Weight approx. 0.2 kg
 Wiring diagram no. 485.1

SWE



Electronic flow monitor

SWE Ref. no. 00065

Area of application

For monitoring the air flow in a duct section.
 Open-circuit or closed-circuit principle possible.

Function

The air flow sensor (combined with a control unit) detects the air flow and compares it to the specified setpoint.

This can be adjusted on the front of the control unit (in the range from 1–20 m/s).

The relay closes when the setpoint is reached/exceeded. Two LED's indicate UN and switching state of the output relay. Connection of external fault display possible via relay output (1 changeover contact, potential-free, max. switching current 5 A / AC 250 V).

Installation

Control unit suitable for switch cabinet installation for attachment to 35 mm mounting rails.
 Air flow sensor with rose fixing for pipe/duct installation and connec-

tion cable (length 2.5 m; can extend to max. 10 m), which must be connected to the control unit.

Technical data

Voltage 230 V, 1~, 50/60 Hz
 Load capacity 5 A (ind.) cos φ 0.4
 Setpoint adjust. range 1 – 20 m/s
 Air flow temperature max. 60 °C
 Ambient temperature max. 60 °C
 Protection category IP20
 Dim. mm W 35 x H 90 x D 66
 Sensor length mm 140
 Weight approx. 0.4 kg
 Wiring diagram no. 689.1

SWT



Mechanical flow monitor

SWT Ref. no. 00080

Area of application

- Mechanical flow monitor with adjustable release force for monitoring a minimum flow velocity in ducts and pipes from NW 315.

Design

Robust design with paddle made of stainless steel and device for mounting to outside of rectangular ducts.

Function

- Electrical switching possible as NC or NO.
- Signal triggered if flow velocity exceeds or falls below a critical value.
- Minimum adjustable flow velocities:
 - shortfall approx. 1.5 m/sec.
 - excess approx. 3 m/sec

Installation

Must be installed so that the paddle weight does not act with or against the spring force.

Technical data

Voltage 24 – 230 V AC, 50/60 Hz
 Load capacity 15 (8) A (ind.)
 Air temp. limits - 40 ... + 85 °C
 Protection category IP65
 Dimensions 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. 557.1

EDTW



Differential temp. controller

EDTW Ref. no. 01613

Area of application and advantages

- Elec. continuously variable differential temp. controller for connection to elec. controllable - ceiling fans and all
- 1~ alternating current fans.
- For constant speed control depending on the temperature differential.
- This controller saves valuable heating energy when used with ceiling fans or fans which circulate the room air from top to bottom. It optimises the temperature difference between the ceiling and floor.

Function

- Continuously variable speed control (0 – 100 %) depending on the difference value between the two temp. sensors and the comparison with the setpoint specification.
- Includes temperature sensors with external cable (1 x 10 m long, for installation below the ceiling; 1 x 2 m long, for installation above the floor).
- The speed increases within the proportional range when the temperature difference increases and the speed decreases when the difference decreases.
- Variable adjustment of proportional band from 1–10 K.

Setting options

- On/off (with function display).
- Automatic/manual operation.
- Change of direction of rotation.
- Proportional range.
- Summer operating mode: As manual speed controller. Motor humming noises can be generated during operation depending on the fan type.

Casing

Impact-resistant plastic, white, for surf. and flush-m. installation.

Technical data

Voltage 230 V, 1~, 50/60 Hz
 Load capacity max. 2.5 A (T 40 E)
 Control range adjustable 1 – 10 K
 Protection category IP20
 Dim. mm W 210 x H 85 x D 55
 Weight approx. 0.7 kg
 Wiring diagram no. 438