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 connection 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 113.5 x H 65 x D 62
Weight approx.	0.4 kg
Wiring diagram no.	557.1