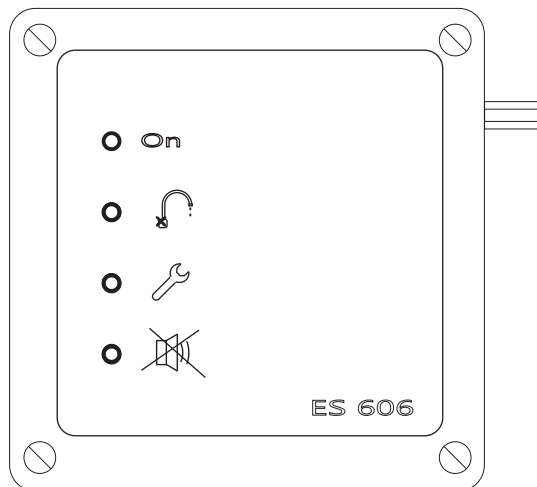


# VentilationAlarm EPD (ES 606)

Double ventilation alarm for extractor hoods

Control unit for monitoring of extractor hoods.  
The ventilation alarm informs the user about the  
operational condition of the hood.



## **Description:**

Ventilation alarm specially designed for monitoring of filter in extractor hood plants. It is possible to set the alarm limits for maximum and minimum acceptable pressure. In this way separate alarms are provided in case of clogged filter requiring cleaning and blocked motor requiring service. When the ventilation alarm is in operation, a green light is activated. In case of alarm one of the red lights on the front flashes, and an audible alarm beeps.

The alarm pressure set points are adjusted on the trimmers 'Max' and 'Min' on the back of the cover.

The audible alarm can be muted by pressing a button.

In case of a power cut the alarm will also be activated. In this situation the alarm is supplied by an internal 9V battery. Both red lamps will be flashing in this situation.

## **Adjustment:**

Turn the trimmer (through the hole in the printed circuit board on the back of the cover) all the way to + (clockwise). Connect power and turn on ventilation alarm and fan. The ventilation alarm will start in low alarm (alarm lights flash and audible alarm beeps).

### Adjustment of low pressure alarm

Adjust on MIN trimmer (indicated on the printed circuit board by "MIN+").

Turn the trimmer towards - (contra clockwise) until the point when the alarm stops.

### Adjustment of high pressure alarm

Adjust on MAX-trimmer (indicated on the printed circuit board by "MAX+").

Simulate clogged filter and turn the trimmer toward - (contra clockwise) until the alarm is activated again.

Advice: Low pressure alarm: contra clockwise. High pressure alarm: clockwise.

Note that it is not possible to achieve 10 and 300Pa by just turning the trimmers to the outer positions as they cover a slightly wider range. It is recommended to make the adjustment with a test set-up.

## **Important:**

Check the battery annually when the unit is being serviced.

If the check includes blowing in the pressure switch, utmost caution should be exercised as the pressure switch may be damaged at high positive / negative pressures.

Remember to disconnect the power supply when the ventilation alarm is serviced.

## **Mounting:**

The ventilation alarm is designed for wall mounting with four screws. It should be mounted in a place where it is visible, can be heard and is easily operated.

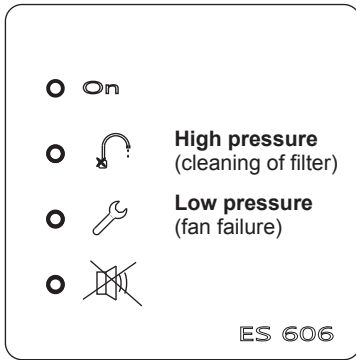
The pressure measurement should be taken in the duct between the fan and the filter with reference to room pressure.

NB! The tube should not be fitted in the hood opening as the pressure in this place rarely is sufficient. The tube should be fitted in the duct closer to the fan.

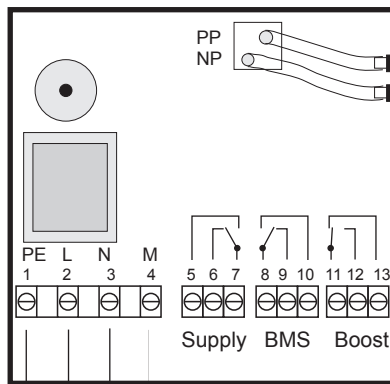
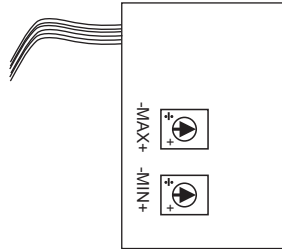
Supply should be taken from the ventilation plant it is going to monitor. To ensure that the power failure alarm is working correctly, live and neutral must be permanently connected to clamps 2 and 3. Clamp M (on/off) is to be connected to the supply activating the ventilation plant. 1 meter plastic tube is supplied. Longer tubing can be mounted.

### **Mounting of connection piece**

1. Drill a 10 mm hole in the panel / duct.
2. Use 2 screws to hold the nozzle in place.
3. Mount the tube on the nozzle.



The trimmers are situated on the back of the cover, and they are adjusted by inserting a small screw driver into the hole in the circuited print board.



+ PP = Positive pressure  
(reference to atmosphere)

- NP = Negative pressure  
to be connected in the duct  
between filter and fan.

**NB!** Be careful not  
to squeeze or bend  
the tubes in the box  
when repositioning  
the cover.



**SWITCH (on/off ventilation alarm)**

Typically live M is taken from the ventilation plant switch. In this way the ventilation alarm is on/off at the same time as the plant.

**Relay functions**

Relay	Position	Situation
BMS:	8 - 9 8 - 10	"Pressure OK" or "Switch off" or "Power failure" "Pressure not OK"
Supply:	6 - 7 5 - 7	"Power failure" "Power supply OK"
Boost:	11 - 12 11 - 13	Active for 10 seconds after activation of switch. When switch is off and after 10 seconds of operation.

The BMS relay does not change position even though "the mute button" is activated.

If the pressure during the **boost period** (10 sec.) exceeds "MAX" a permanent high pressure alarm will be activated. This alarm does not stop even though the exhaust decreases when the boost relay is deactivated. It is possible to mute the audible alarm.

## Technical data:

Supply:	230V AC, 50 Hz, max 13A
Op. temperature:	0 - 30 °C
Measuring range:	approx. 10 - 300 Pa
Max. positive pressure:	30 KPa
Substances:	Neutral gasses
Operation temperature:	±5% F.S.
Connection pieces:	ext. Ø5,0 mm ±0.2 mm
Hysteresis:	less than 5 Pa
BMS and supply relays:	48V ac/dc, 0,5A
Boost relay:	230V AC, 10A (AC1)
Enclosure:	IP 22
Dimensions (HxWxD):	122 x 135 x 55 mm

## WEEE

Electrical and electronic equipment contains material which may be hazardous to human health and environment if it is not handled correctly at disposal. Electrical and electronic equipment is marked with a crossed-out wheelee bin logo. This logo symbolises that electrical and electronic equipment must not be disposed of together with normal household waste but must be collected separately.

Contact your local authorities for further information on disposal of equipment under the WEEE directive.



## The product complies with the following CE directives:

LVD	73 / 23 / EØF
EMC	89 / 336 EØF



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**LSCONTROL**