ALARM FOR SAFETY CABINETS

SPECIFICATIONS

ALARM FOR SAFETY CABINETS   www.seat-ventilation.com

GENERAL DESCRIPTION

Benefits

- Ease of installation and maintenance
- Attractive design
- Digital display in m/s or FPM
- Applications: safety cabinets or hoods

Features

- Audible and visual alarm
- 3 Push buttons: Fan ON/OFF, light ON/OFF, Mute
- Alarm for past time

Options

- Alarm relay:
An alarrm relay can be installed optionnaly.

- Battery back up:
Red LED alarm is still functional up to 6h when unit loses power.

- Digital display in m/s or FPM

Colors

Plastic fascia is available in 3 colours:white, black and yellow.

International Standards Compliance

- CEM Electromagnetic Compatibility EN 61326:1997 / A1 : 1998 /A2 : 2001 / A3 : 2003 (*Test RC-05-42060-1*) US FCC Part 15 Class B edition 2005 (*Test report RC-05-42060-2-A*).
- RoHS directive
- Laboratory French standard XPX 15206 January. 2005
- CE
- **Labour regulation Nr R4222-13** (Alarm for safety cabinets containing dangerous products)

Components

- **Circuit board with sensor included**
Panel mounted circuit board to be installed horizontally onto cabinet with 2X2,8 mm screws; IP55 protection ensured by 'O' seal ring; Face plate is supplied with chemical resistent plastic sticker (horizontal) with control/push buttons on fascia; Mounting box is included.

- **Power supply**
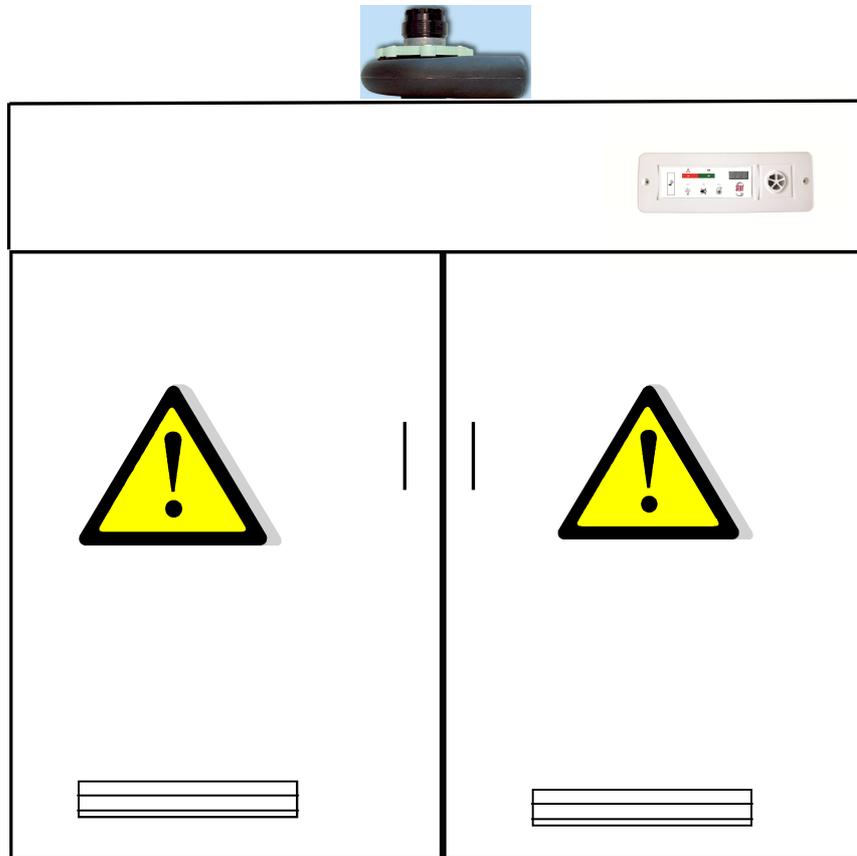230Vac to 12Vdc power transformer directly into alarm circuit board.

Packing

- Supplied in cardboard box which includes controller circuit board, 'O' seal ring, power supply 220/12V and mounting box.

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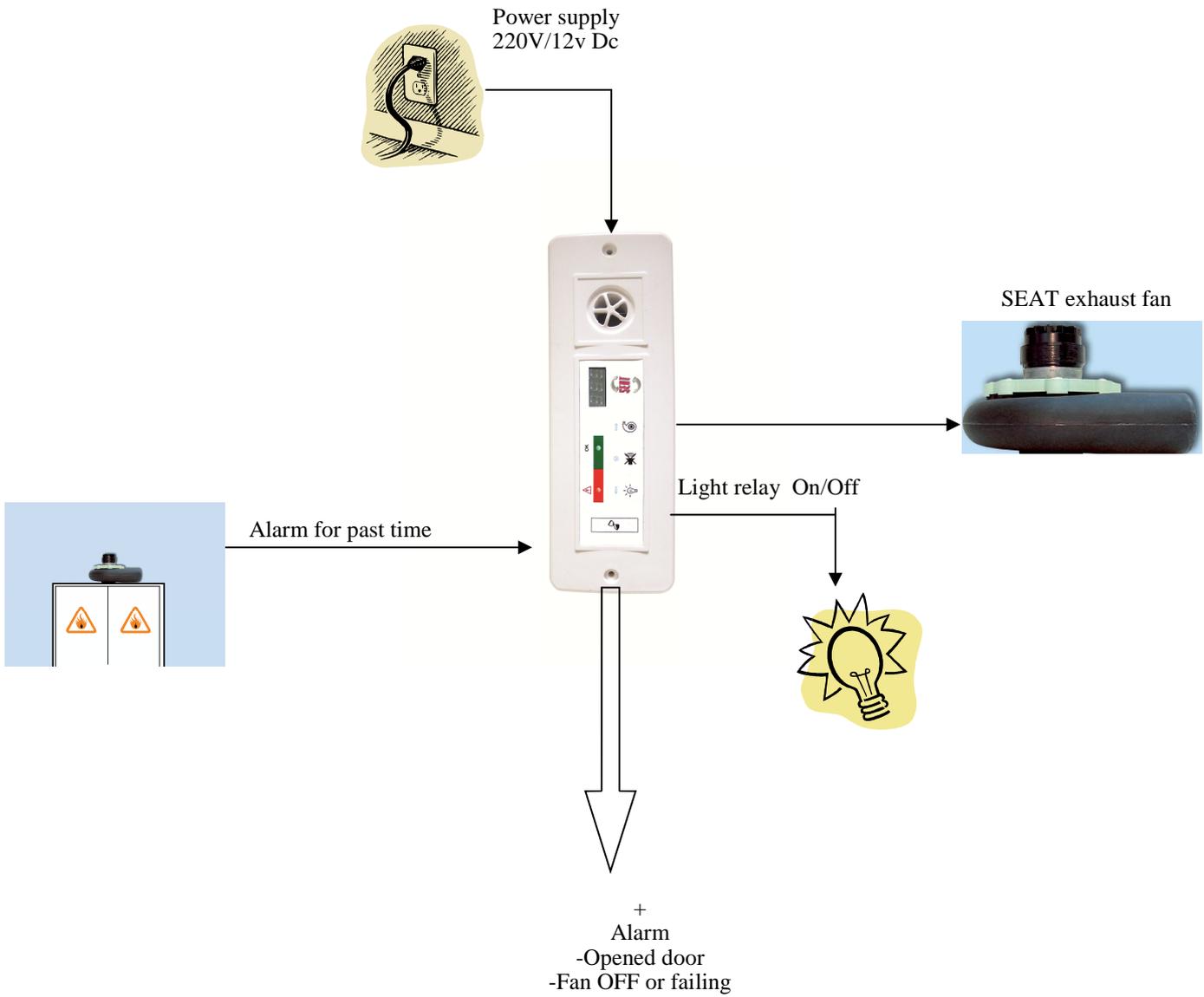
OPERATING PRINCIPLE

When the fume extraction fan is running, it causes negative pressure inside the safety cabinet or hood. While normal operation (closed doors) the pressure is intense, the front air velocity is constant. If the doors are opened, the pressure becomes less intense and air velocity decrease.

If an opening is made in the wall of the cabinet, air will enter in at a velocity determine by the same negative pressure that is drawing air in the front of the safety cabinet. The obtained air velocity level measurement by using the numerical sensor is displayed on the fascia by LED illumination or digital read out. An audible alarm will sound in case of opened doors or exhaust fan failure.

The alarm timer count the safety cabinet uptime. It allows to check the filters and installation situation in accordance with recommendation. The setting is made from 0 to 100h and from 5 to 365 days.
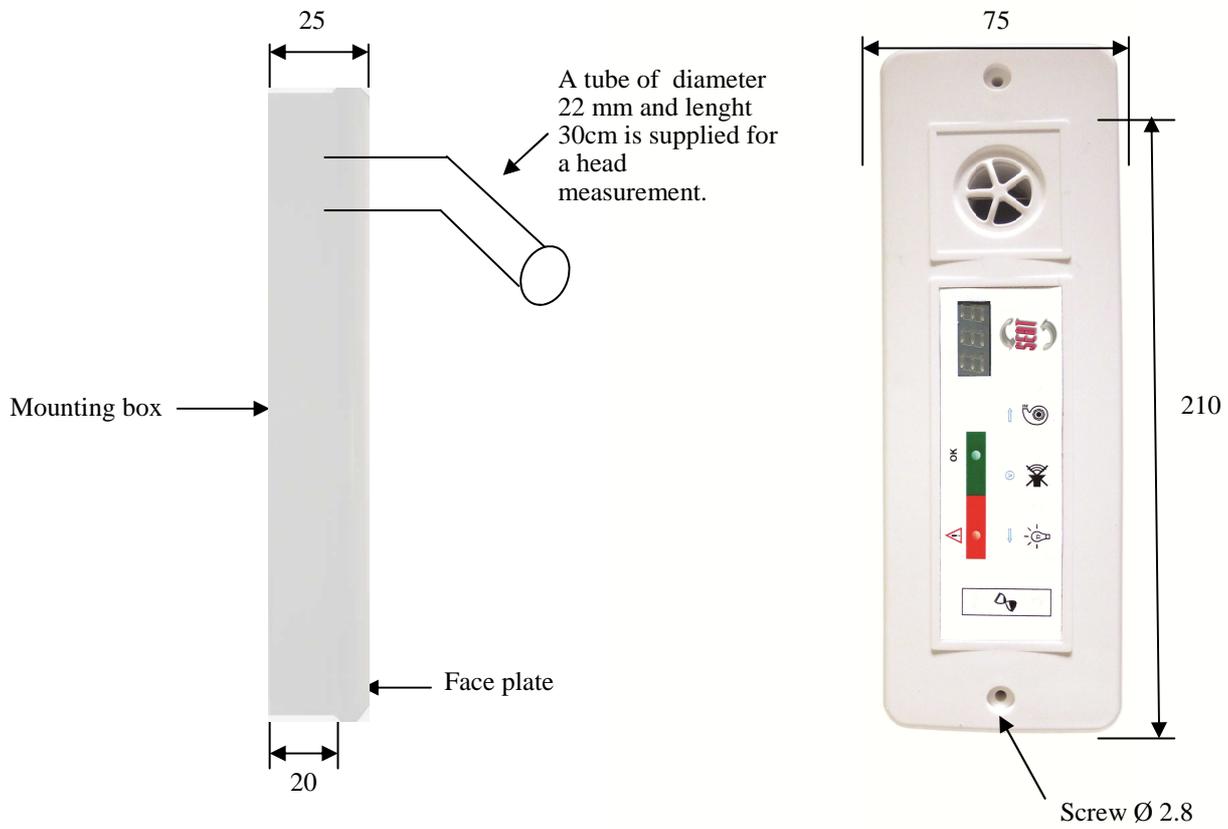
LED & DIGITAL DISPLAY

Power supply
220V/12v Dc

SEAT exhaust fan

Light relay   On/Off

Alarm for past time

+
Alarm
-Opened door
-Fan OFF or failing

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SPECIFICATIONS

	LED version	Digital display version
References	**819698**	**819697**
Digital display–Led	1 green LED Air flow Ok 1 flashing red LED for Alarm No digital display	1 green LED Air flow OK 1 flashing red LED for Alarm **3 digits display with velocity reading**
Units	N/A	Meter par second (m/s) or FPM
Display range	N/A	0 - 2.00 m/s
Alarm past time	1 flashing Led 5% remaining time 2 constant Leds past Time	1 flashing Led 5% remaining time 2 constant Leds past Time
Alarm delay	Selectable 15s or 30s	Selectable 15s or 30s
Alarm Indication	1 flashing red LED and audible Buzzer	1 flashing red LED and and audible Buzzer
Alarm mute button	🔇	🔇
Light On/Off button	💡	💡
Fan On/Off button	⊚	⊚
Alarm relay	Yes (optional)	Yes (optional)
Battery back up	Yes (optional)	Yes (optional)
Alarm past time	Audible and visual	Audible and visual
Mounting	Mounting box	Mounting box
Calibration	Factory pre-calibaretd @ 0.5m/s . Recalibration possible	Factory pre-calibrated @ 0.5m/s . Recalibration possible
Power supply	12Vdc (power supply included 220v:12v)	12Vdc (power supply included 220v:12v)
Orientation	Horizontal	Horizontal
Dimensions	Front fascia: 210L x 75lx 10H mm Mounting box: 205L x 75l x 25H mm	Front fascia: 210L x 75l x 10H mm Mounting box: 205L x 75l x 25H mm

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DIMENSIONS

Alarm+mounting box

25

A tube of diameter 22 mm and lenght 30cm is supplied for a head measurement.

Mounting box

Face plate

20

75

210

Screw Ø 2.8

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OVERALL VIEW

Front plate

Digital display

**1 green LED
Air flow OK**

**1 red LED
Air speed too low**

**1 flashing LED
5% remaining time**

Alarm for past time

Fan ON/OFF button

Alarm mute push button

Light ON/OFF button

**2 constant LEDS for
past time**