



LABORATORY AIRFLOW MONITOR

TYPE JUNIOR

SPECIFICATIONS



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GENERAL DESCRIPTION

Benefits

- Safety: in accordance with latest EU laboratory standard EN 14175.
- Ease of installation and maintenance
- Stable and accurate sensor reading
- Attractive design

Applications

- Principally adapted for chemical storage cabinets, general exhaust systems

Features

- Audio alarm
- 1 Pushbutton: Mute
- 1 red LED
- 1 green LED

Colors

Plastic fascia is available in white standard color.

International Standards Compliance

In accordance with:

- European laboratory standard EN 14175-2
- Electromagnetic standards EN

61326:1997 / A1 : 1998 / A2 : 2001 / A3 : 2003

(*Test report RC-05-42060-1*) US FCC Part 15

Class B edition 2005 (*Test report RC-05-42060-2-A*).

- European RoHS directive governing disposal and recycling of electronics
- French laboratory standard XPX 15203 of Sept 1996

Components

- **Circuit board:**
Panel mounted circuit board to be installed vertically onto the exhaust system (storage cabinet for example) with 2x Ø 2.8mm screws. IP55 protection ensured by 'O' ring seal. Face plate to be supplied with chemical resistant plastic sticker (vertical) with control/push buttons on fascia. **Surface box mounting included.**
- **Sensor:**
To be installed inside the exhaust system (storage cabinet for example). Sensor measures air speed variations inside. Supplied with a 3.5m (5m optional) shielded cable with pin connections onto controller circuit board.
- **Power supply:**
230Vac to 12Vdc power transformer directly into controller circuit board. Comes with a Euro 2 pin plug/cord. Adaptor may be required to fit local power socket



Packing

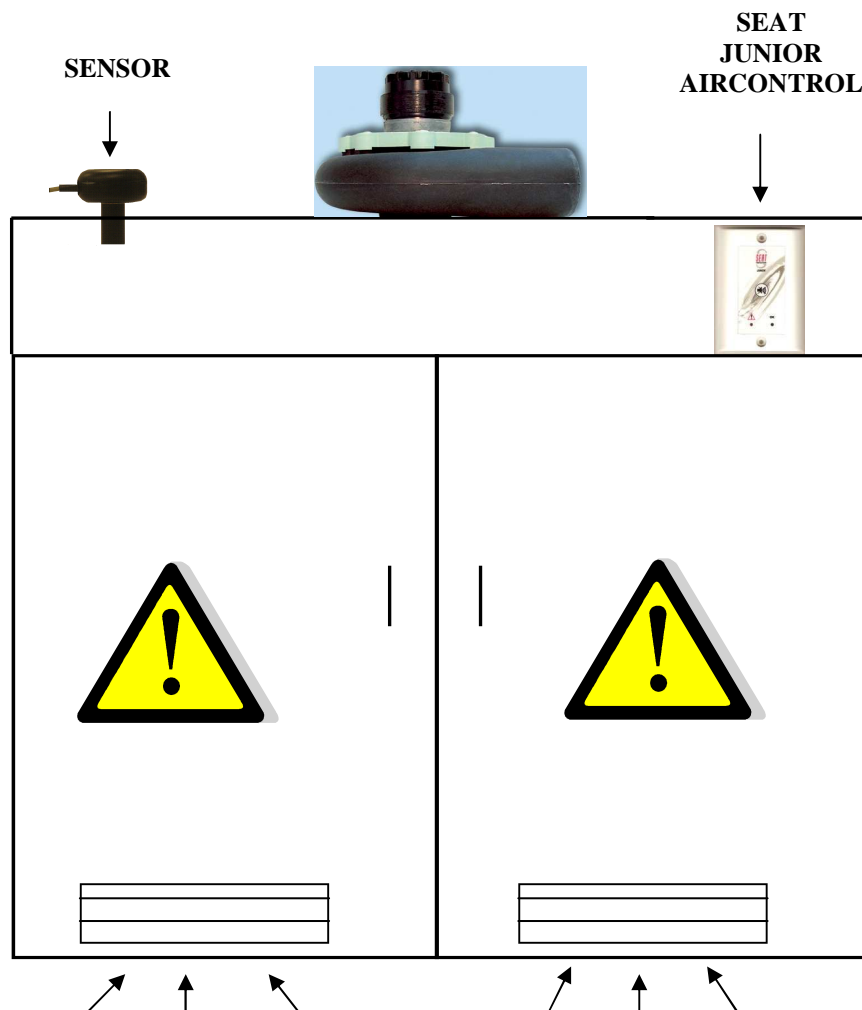
- Supplied in cardboard box which includes controller circuit board, surface box mounting, face plate, sensor and power transformer.

OPERATING PRINCIPLE

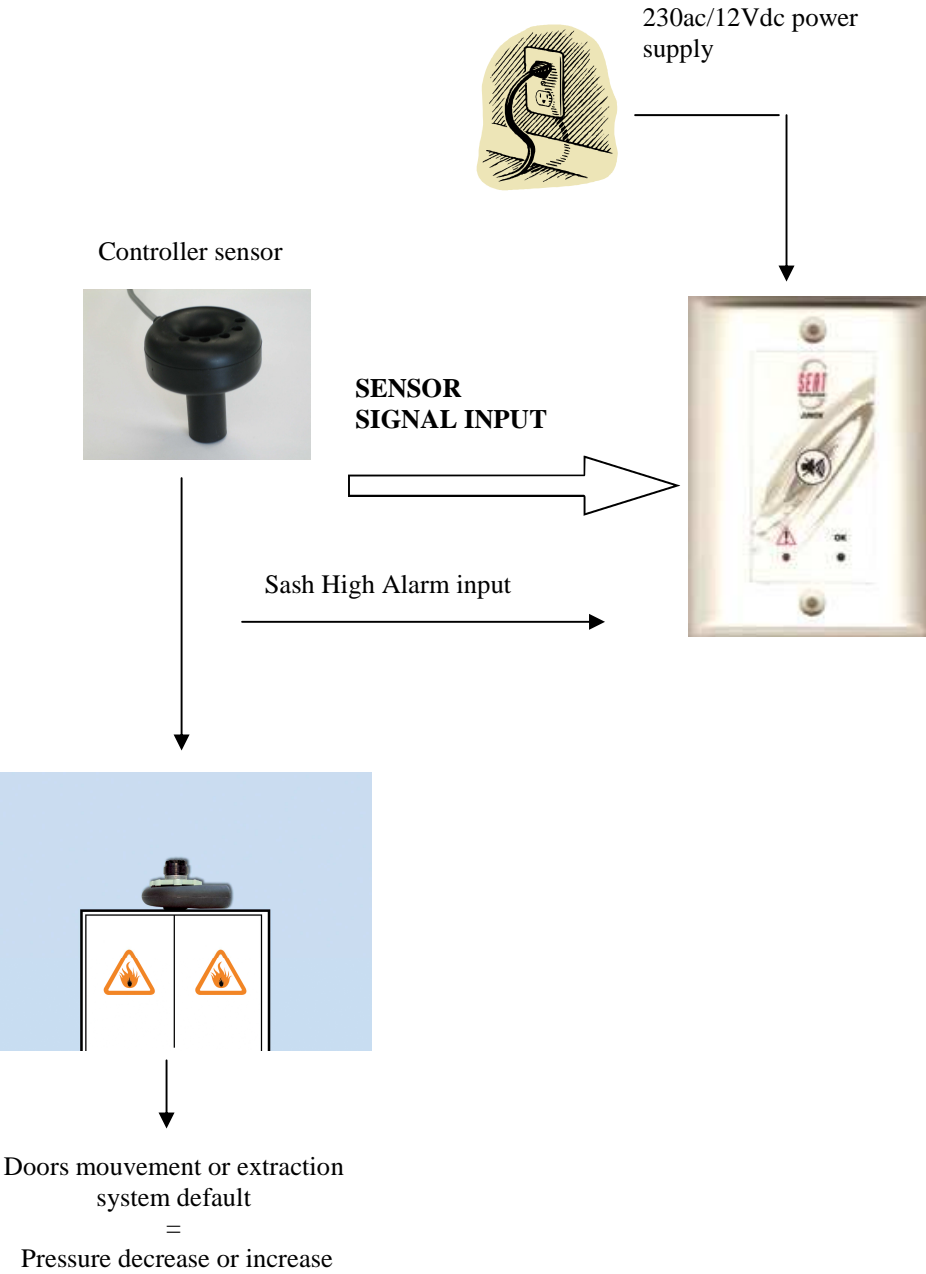
When the fume extraction fan is running, it causes negative pressure inside the storage cabinet. In normal use (doors closed), the pressure is high, the air speed at the entry of the storage cabinet is constant. Conversely, since the door opening or a default of the ventilation system, the pressure decrease and air velocity reduces.

SEAT Junior AirControl exploits this by the placing of a numerical sensor, or thermal anemometer, into a hole in the cupboard and sending the air velocity measurement obtained to a display on the fascia panel.







The air velocity level is visualized on the fascia by LED illumination. All functioning anomaly activate an audible alarm.



SCHEMATIC JUNIOR

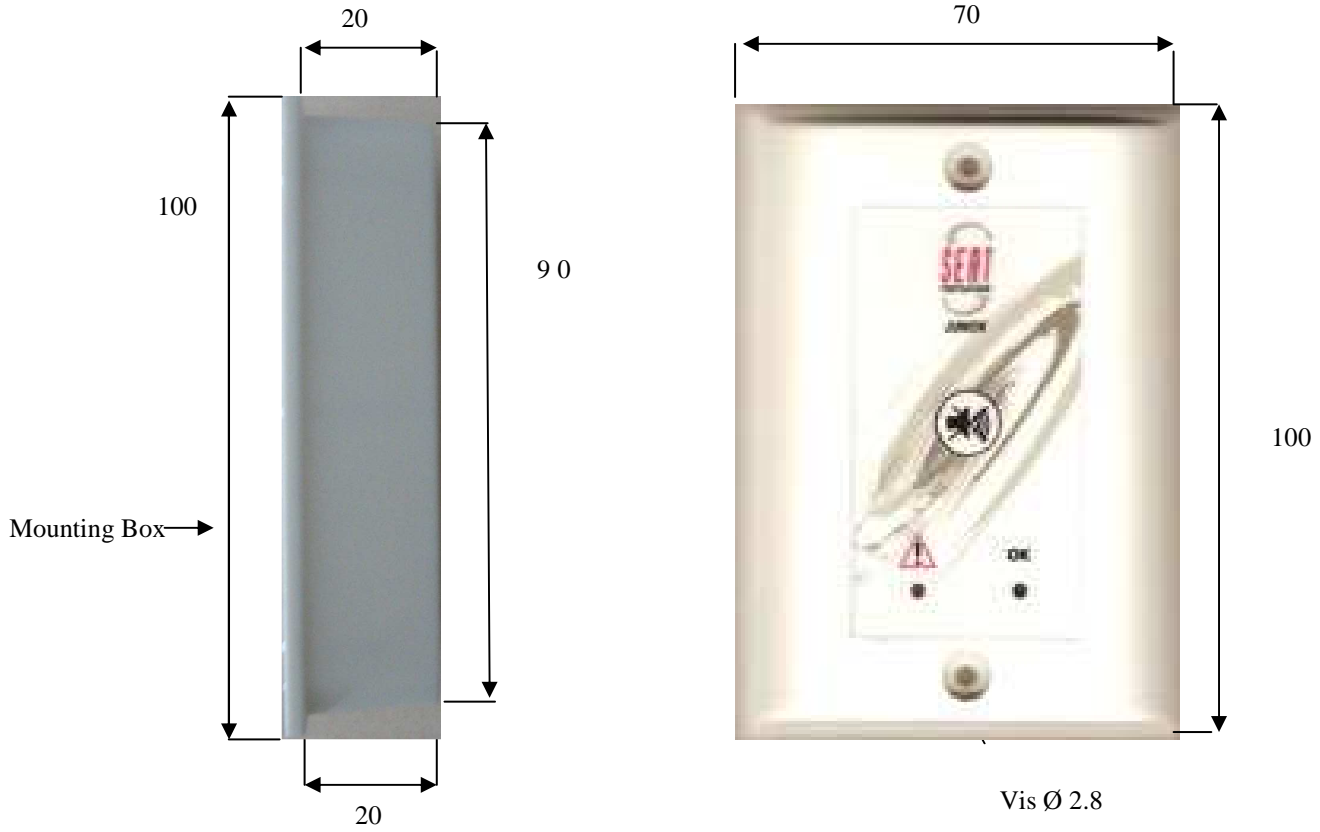


SPECIFICATIONS

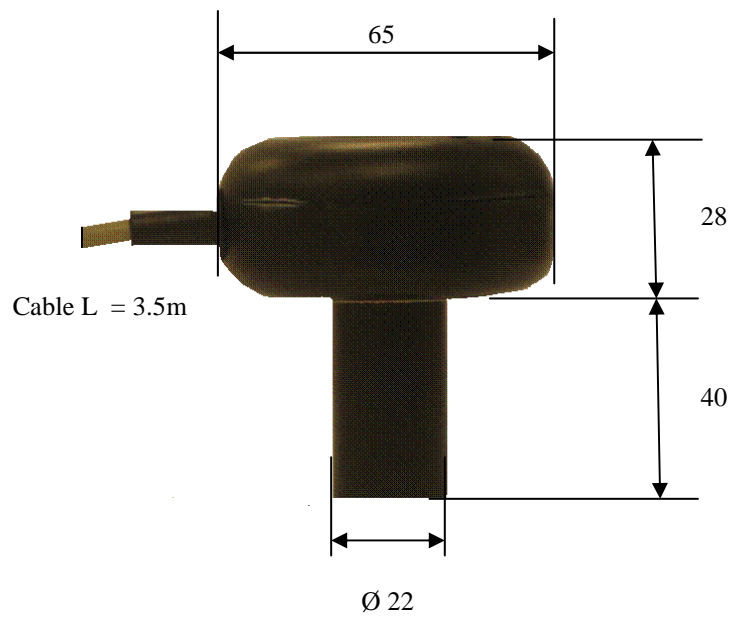
	Junior AirControl
	   OK  
Part Number	819699
Display-Visual	1 Green LED for normal air speed 1 Red LED flashing for alarm No digital display
Alarm Setpoint	Standard : below 0.39m/s
Alarm Indication	1 red LED flashing and audible buzzer
Alarm Mute	
Mounting	Flush or surface box
Calibration	Factory pre-calibrated @ 0.5m/s . Recalibration possible
Power Requirement	12Vdc (power supply included)
Orientation	Vertical only
Monitor Dimensions	Front fascia: 100L x 70W x 10D mm Surface box: 100L x 20W x 20D mm

SPECIFICATIONS

Monitor + Mounting Box



Sensor



NOTE: All dimensions in mm

OVERALL VIEW

