



**AIR
CONTROL**

ALARM FOR SAFETY CABINETS

Specifications



PLASTEC® VENTILATION, INC.
www.plastecvent.net

ALARM FOR SAFETY CABINETS

General Description

BENEFITS

- Ease of installation and maintenance
- Attractive design
- Digital display in m/s or FPM: change from one to other by pressing Light and Alarm Buttons simultaneously for 5 seconds
- Applications: Safety Cabinets and Ductless Fume Hoods

FEATURES

- Audible and Visual Alarm
- 3 Push Buttons: Fan On/Off, Light On/Off, Mute
- Alarm for no time remaining

OPTIONS

- **Alarm Relay:** An Alarm Relay can be installed optionally
- **Battery Back Up:** Red LED Alarm is still functional up to 6 hours when unit loses power.
- **Digital Display** for time remaining. May also display velocity in m/s or FPM

COLORS

Plastic fascia is available in 3 colors: White, Black or Yellow



PACKING

- Supplied in cardboard box which includes Controller Circuit Board, "O" Ring Seal, Power Supply 115/12V, Plastic Tube and Mounting Box.

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)
- UL 94 (Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances testing), class V-0 (burning stops within 10 seconds on a vertical specimen; drips of particles allowed as long as they are not inflamed).

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" Ring Seal; Face plate is supplied with chemical resistant plastic sticker (horizontal) with control/push buttons on fascia; Mounting Box is included.
- **Power Supply:** 115 VAC to 12 VDC power transformer directly into Alarm Circuit Board.



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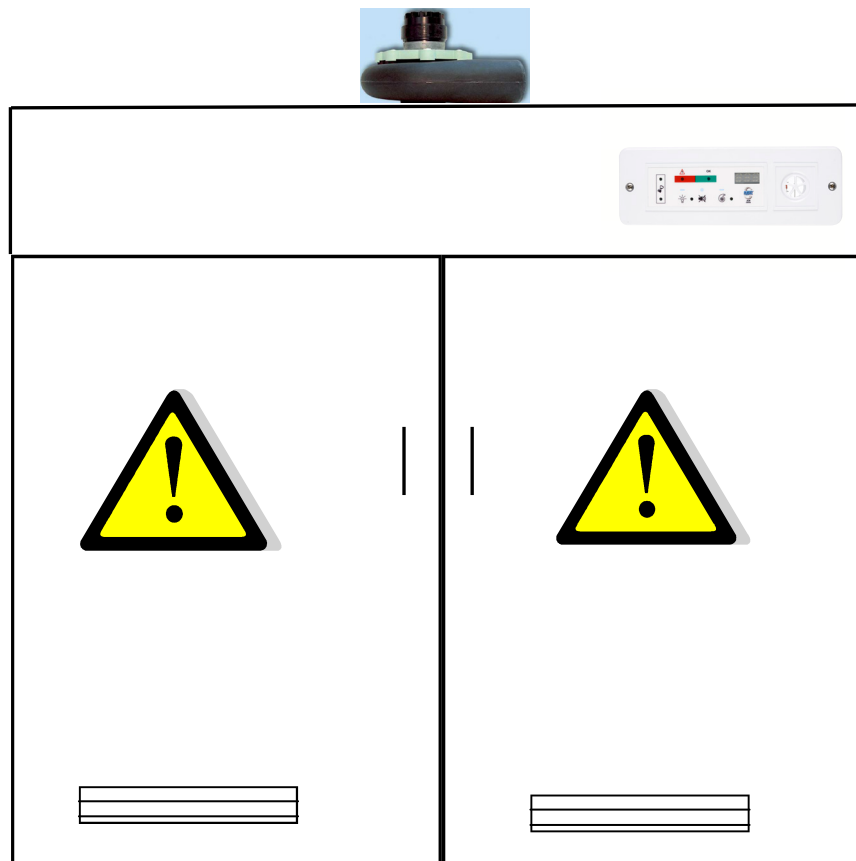
ALARM FOR SAFETY CABINETS

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 decreases.

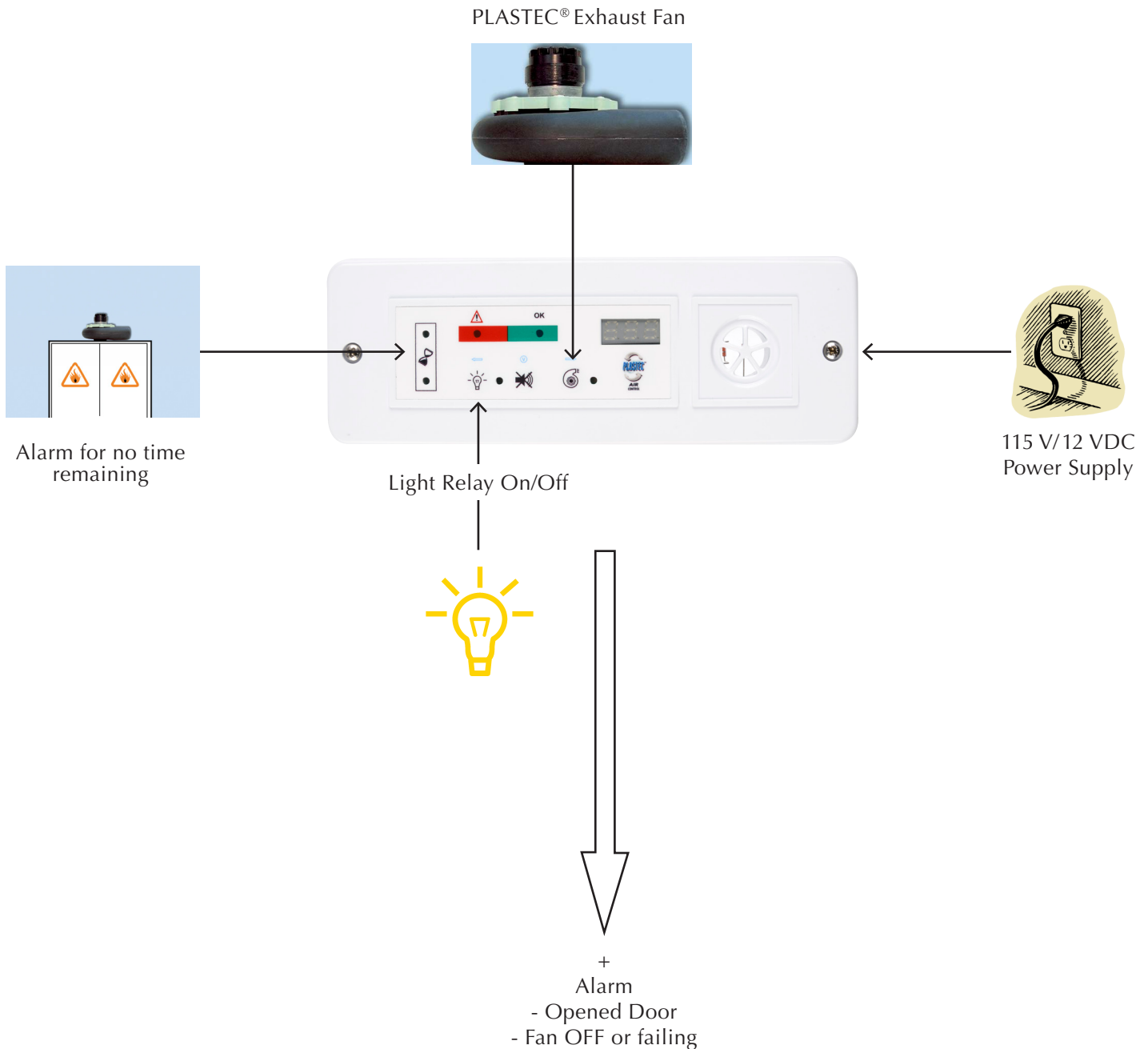
If an opening is made in the wall of the cabinet, air will enter in at a velocity determined by the same negative pressure that is drawing air in the front of the safety cabinet. The obtained air velocity level measurement by using the numerical sensor is displayed on the fascia by displaying Digital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

The alarm timer counts down the safety cabinet time remaining. It allows to check the filters and installation situation in accordance with recommendation. The setting is made from 0 to 100 hours and from 5 to 365 days.



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Schematic Digital Display



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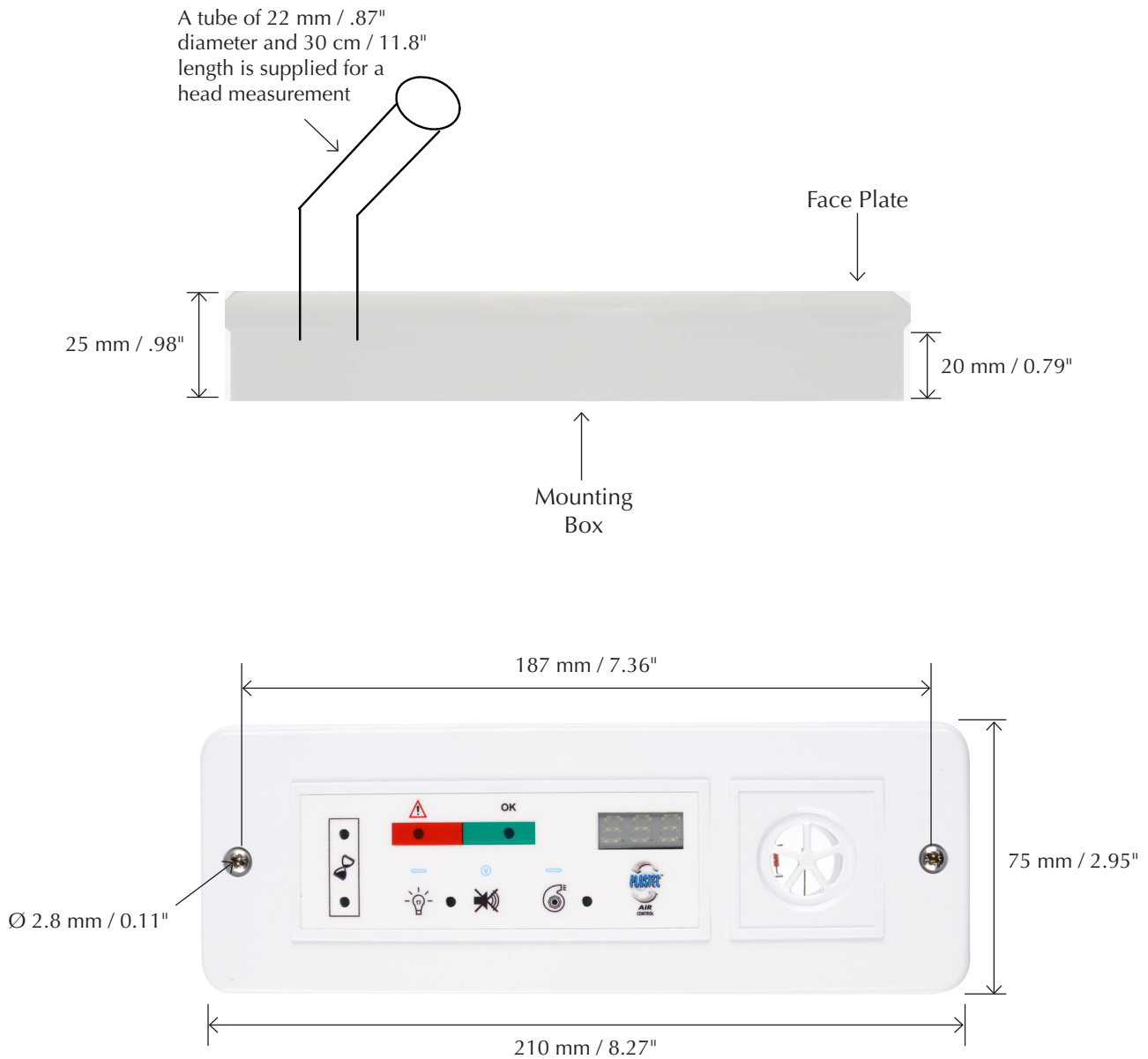
Specifications

	Digital Display
	
References/Model Number	819698
Digital Display	1 green LED Air flow OK 1 flashing red LED flashing for Alarm 3 digits display with velocity reading
Units	meter per second (m/s) / FPM
Display Range	0 - 2.00 m/s / 394 FPM
Alarm Past Time	1 flashing LED 5% remaining time 2 constant LEDs no remaining time
Alarm Delay	15 or 30 Seconds
Alarm Indication	1 flashing red LED & Audible Buzzer
Alarm Mute Button	
Light On/Off Button	
Fan On/Off Button	
Alarm Relay	Yes, optional
Battery Back Up	Yes, optional
Alarm Past Time	Audible and Visual
Mounting	Mounting Box
Calibration	Factory pre-calibrated @ 0.5m/s / 100 FPM Recalibration possible
Power Supply	12 VDC (power supply included) 115V:12V
Orientation	Horizontal
Dimensions: (U.S.)	Front fascia: 8.27"L x 3.54"W x 0.39"D Mounting box: 8.07"L x 3.35"W x 0.98"D
Dimensions: (metric)	Front fascia: 210L x 90W x 10D Mounting box: 205L x 85W x 14D

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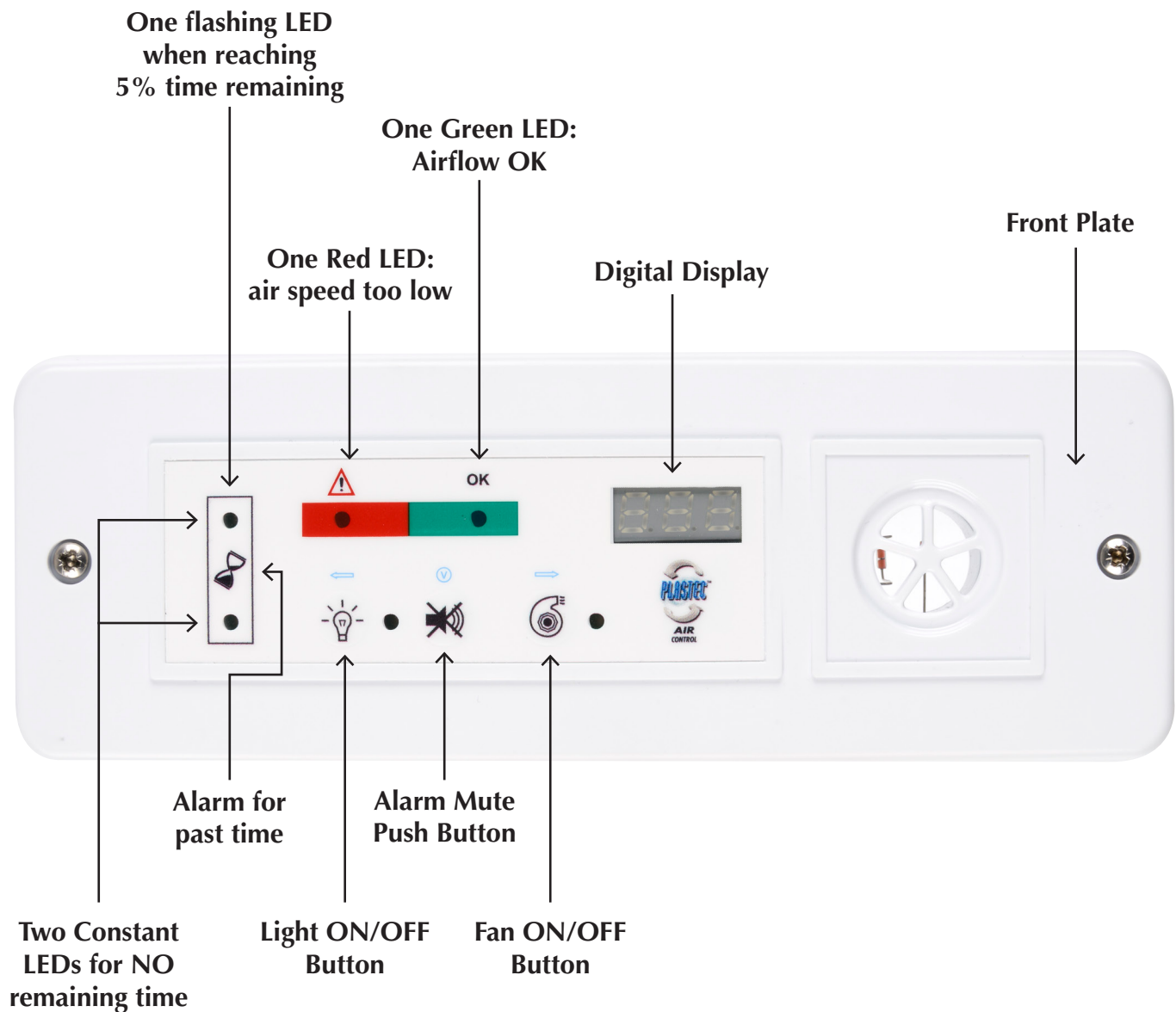
Dimensions

ALARM & MOUNTING BOX



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Overall View



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