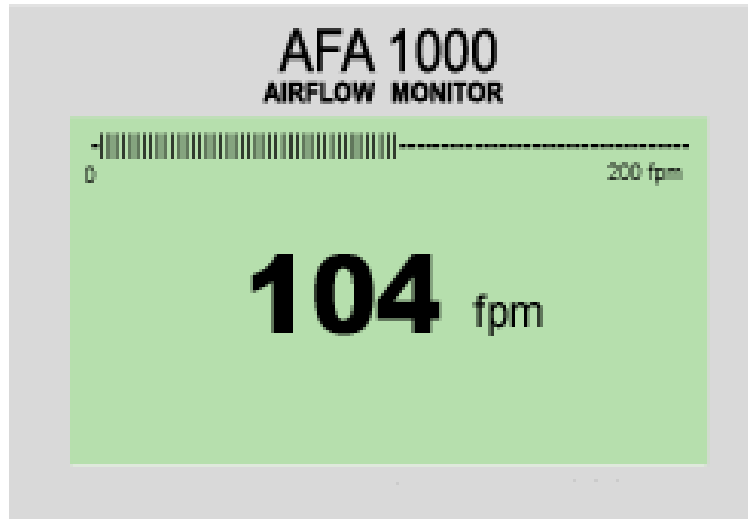


# **AFA 1000 / 1 AIRFLOW MONITOR**

## **Menu Block Diagrams**

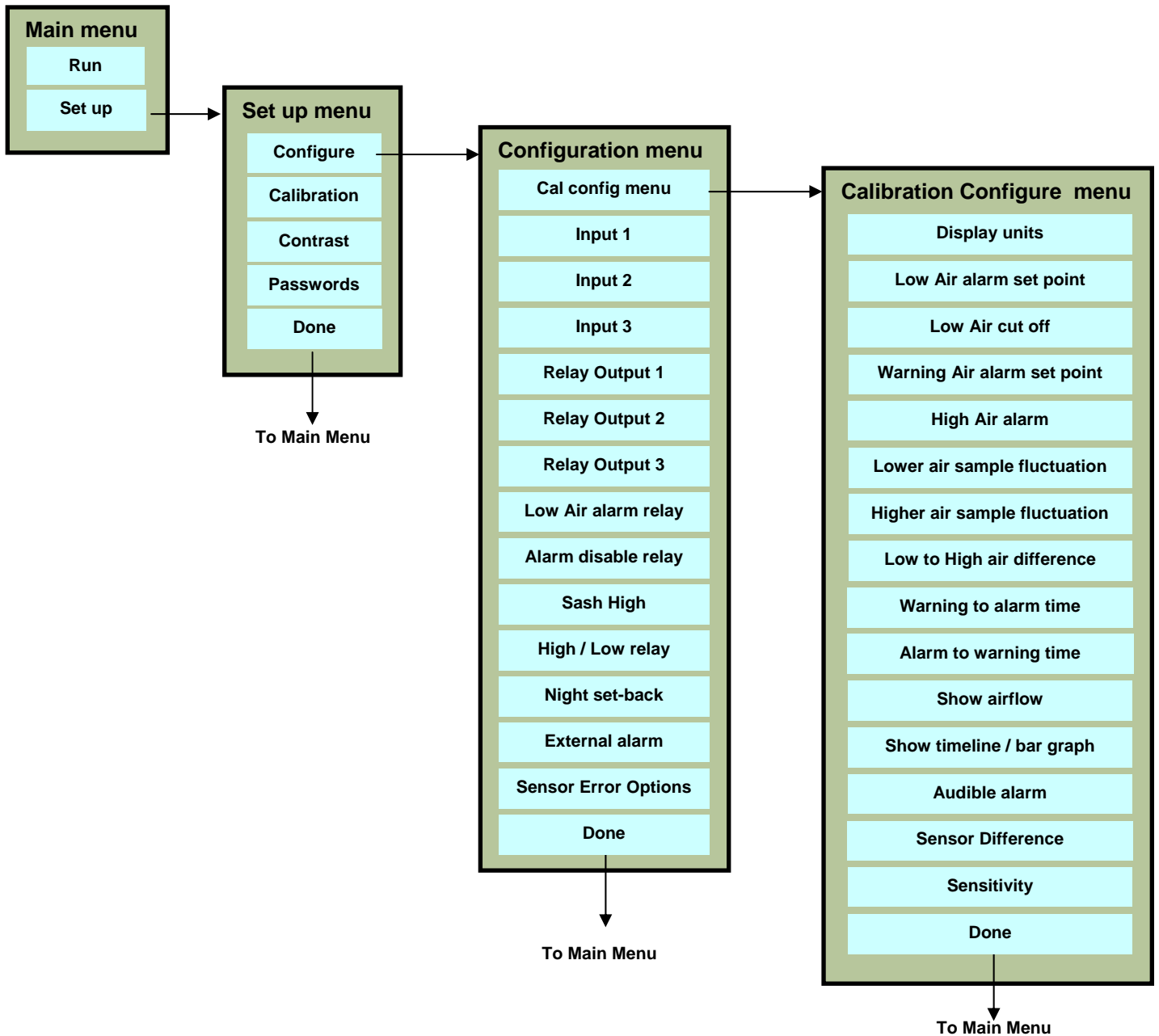
# AFA1000 / 1



**TEL**

[www.tel-uk.com](http://www.tel-uk.com)  
MADE IN ENGLAND

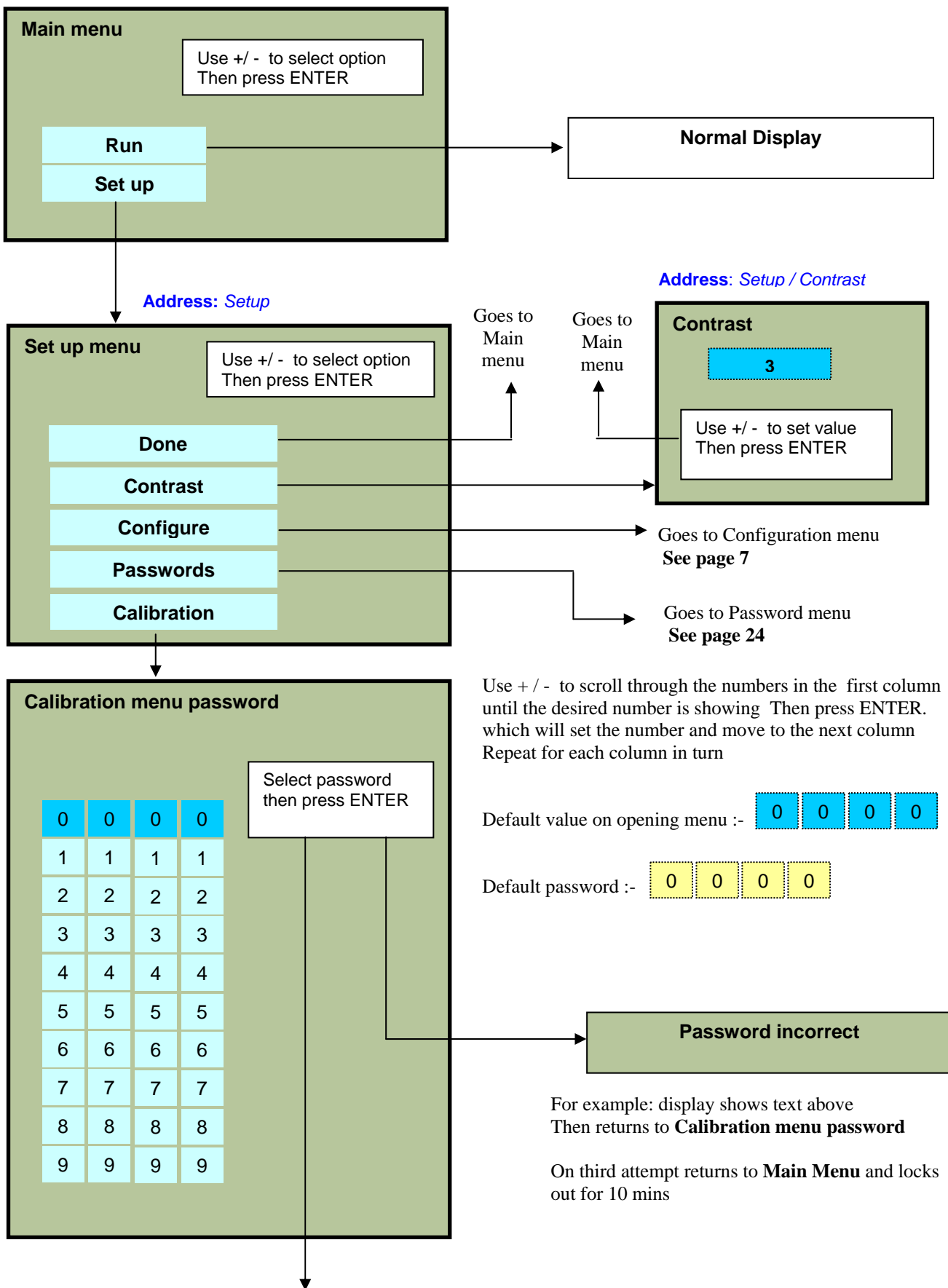
# Menu Overview



## Notes :-

1. Password required to enter **Configuration Menu** , **Calibration Configure Menu** and **Passwords Menu**. ( All the factory default passwords are set to 0000.)
2. In the event of error when the 'password' is requested press the +/- buttons together at the same time to return to the Main Menu.
3. For **Calibration** of the alarm – follow the instructions displayed on the LCD screen.
4. **Read the AFA1000 / 1 Manual before attempting to change any of the parameters**

## Press Enter pushbutton for 5 secs to go to Main Menu



If password OK goes to Calibration mode – see page 4

# CALIBRATION

Address: Setup / Calibration

Open the Sash to the normal operating position and measure the face velocity using a calibrated instrument

ENTER to continue

Low air sample

100 fpm

Use +/- to set value to measured value  
Then press ENTER

Shows default value or last value selected.

Enter the value of the face velocity measured with the calibrated instrument

Deviations too high  
repeat Low air sample

Display for 2 secs then returns to Low air sample menu

Checks airflow signal over 5 sec period and takes the average value

If fluctuations or deviations from set value too large

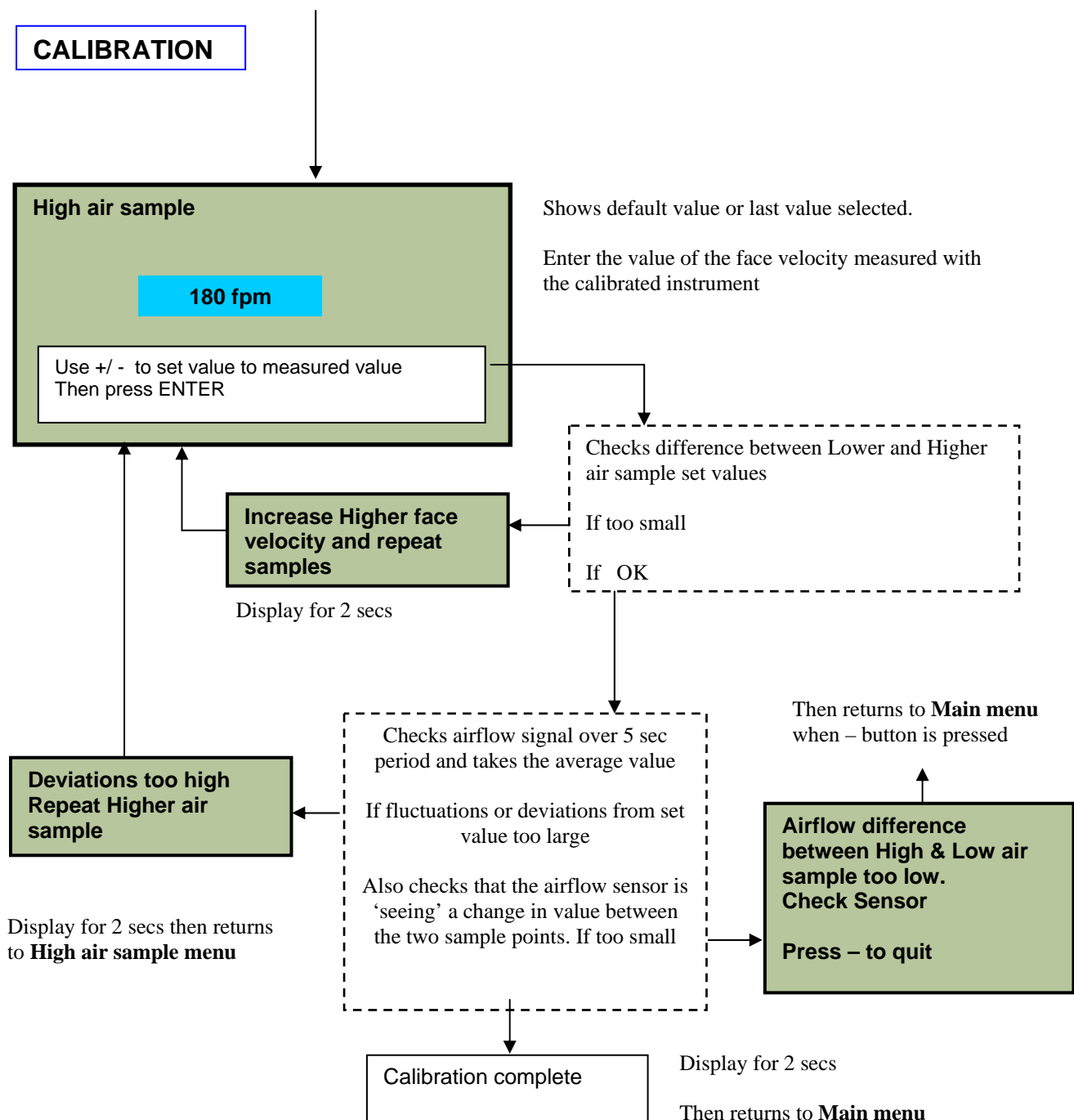
If OK

Display for 2 secs

Low air sample set

Lower the sash and measure the higher face velocity using a calibrated instrument

ENTER to continue



Notes :-

1. If the airflow is changing during the sampling period the unit will ask you to repeat the sample. If the changes are due to turbulence caused by draughts across the fume cupboard ( fume hood ) then this should be reduced before the next sample is taken. In extreme cases the percentage value of the acceptable fluctuations can be altered by going to the **Configuration Menu / Cal Config** and adjusting the value of the **Low Air Fluc** or **High Air Fluc** values. ( default setting 5% ).  
Take care when adjusting these figures because too high a value will reduce the accuracy of the calibration.
2. If the 'Airflow difference too low' message appears – check that the sensor is installed correctly with the 25mm tube connected. If the problem persists then contact our engineers for advice on the sensor installation
3. Take time when carrying out the Calibration procedure to allow the airflow sensor to stabilise at the two sampling values.

# CONFIGURATION

Address: Setup / Config

**Configuration menu password**

Select password then press ENTER

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

Use +/- to scroll through the numbers in the first column until the desired number is showing. Then press ENTER, which will set the number and move to the next column. Repeat for each column in turn.

Default value on opening menu :- 0 0 0 0

Default password :- 0 0 0 0

**Password incorrect**

For example display shows text above. Then returns to **Configuration menu password**.

On third attempt returns to **Main Menu** and locks out for 10 mins.

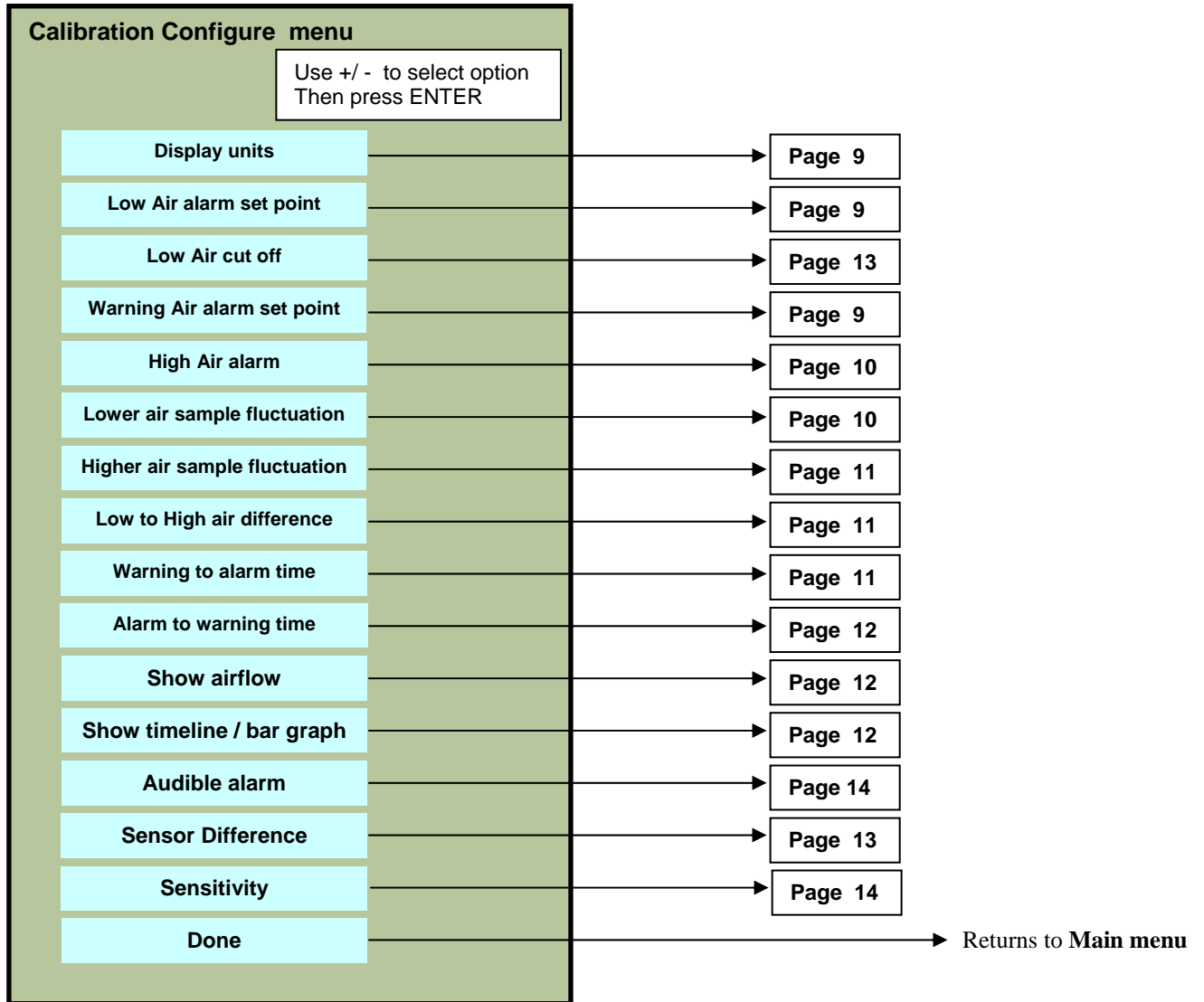
**Configuration menu**

Use +/- to select option Then press ENTER

Cal config menu	→	Page 8
Input 1	→	Page 15
Input 2	→	Page 16
Input 3	→	Page 17
Relay Output 1	→	Page 18
Relay Output 2	→	Page 18
Relay Output 3	→	Page 18
Low Air alarm relay	→	Page 22
Alarm disable relay	→	Page 22
Sash High	→	Page 19
High / Low relay	→	Page 22
Night set-back	→	Page 20
External alarm	→	Page 21
Sensor Error options	→	Page 23
Done	→	Returns to Main menu

# CONFIGURATION – Cal Configure

Address: Setup / Confiq / Cal Confiq





# CONFIGURATION – Cal Configure

Address: Setup / Config / Cal Config / Display Units

**Display units**

Use +/- to select option  
Then press ENTER

m / sec

fpm

Selects units for all displays and menus

Shows default value   
or last value selected

**Display units set to fpm**

Shows text above for 2 secs  
Then returns to **Calibration configure menu**

Address: Setup / Config / Cal Config / Low Air Alarm

**Low Air alarm**

Use +/- to set  
alarm value  
then press ENTER

80 fpm

Shows default value   
or last value selected

**Low Air alarm set to**

80 fpm

Shows text above for 2 secs  
Then returns to **Calibration configure menu**

Address: Setup / Config / Cal Config / Warning Air Alarm

**Warning Air alarm**

Use +/- to set  
alarm value  
then press ENTER

90 fpm

Shows default value   
or last value selected

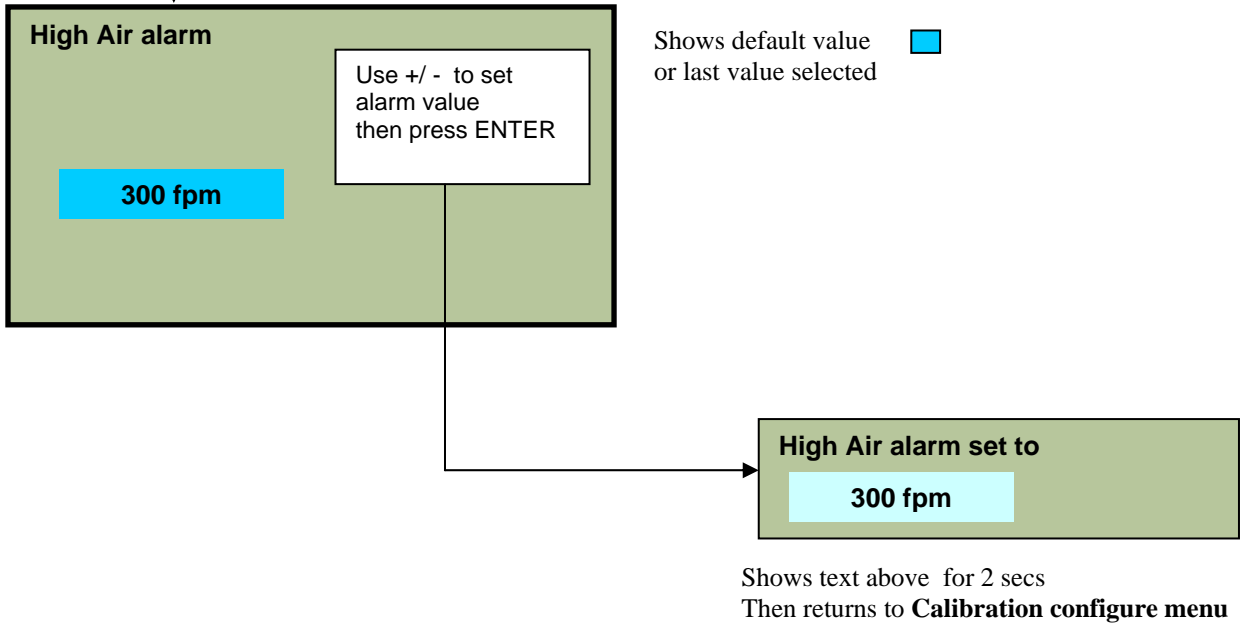
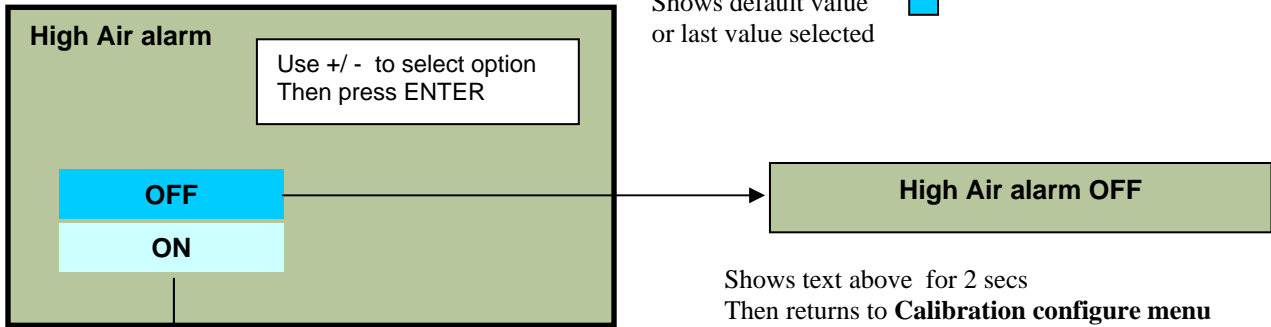
**Warning Air alarm set to**

90 fpm

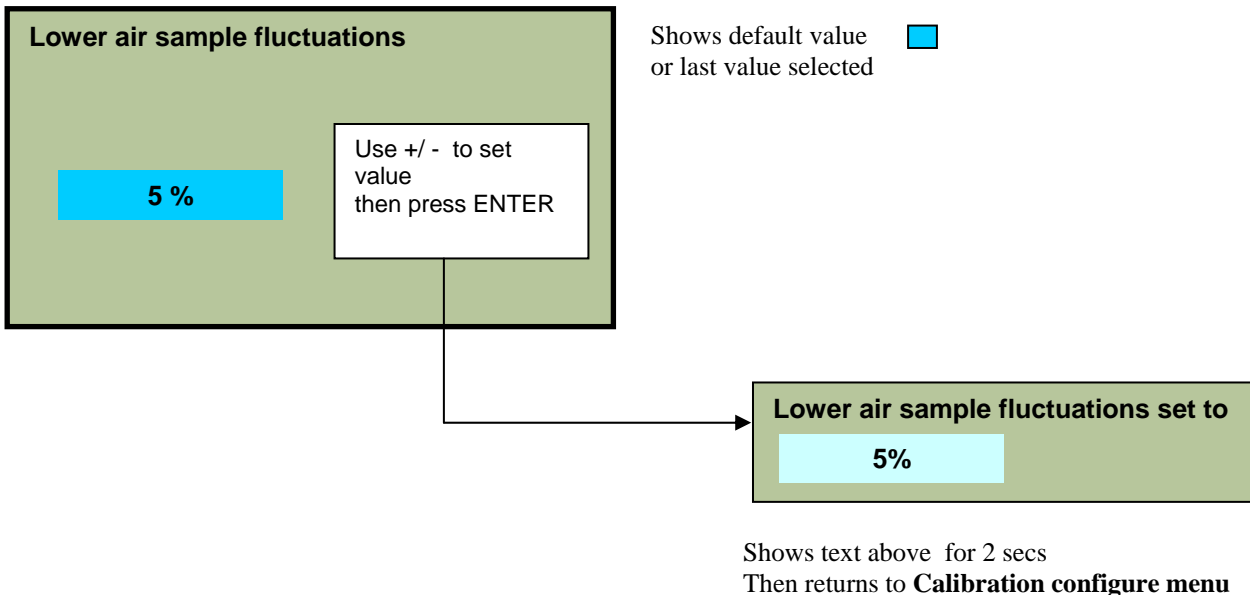
Shows text above for 2 secs  
Then returns to **Calibration configure menu**

# CONFIGURATION – Cal Configure

Address: Setup / Config / Cal Config / High Air Alarm



Address: Setup / Config / Cal Config / Low Air Fluc



# CONFIGURATION – Cal Configure

Address: Setup / Config / Cal Config / High Air Fluc

**Higher air sample fluctuations**

10 %

Use +/- to set value then press ENTER

Shows default value or last value selected

**Higher air sample fluctuations set to**

10%

Shows text above for 2 secs  
Then returns to Calibration configure menu

Address: Setup / Config / Cal Config / Low High Diff

**Lower to Higher air sample difference**

60 fpm

Use +/- to set value then press ENTER

Shows default value or last value selected

**Lower to High air sample diff set to**

60 fpm

Shows text above for 2 secs  
Then returns to Calibration configure menu

Address: Setup / Config / Cal Config / Warning-Alarm Time

**Warning to Alarm time**

5 sec

Use +/- to set value then press ENTER

Shows default value or last value selected

**Warning to Alarm time set to**

5 sec

Shows text below for 2 secs  
Then returns to Calibration configure menu

# CONFIGURATION – Cal Configure

Address: Setup / Config / Cal Config / Alarm-Warning Time

**Alarm to Warning time**

1 sec

Use +/- to set value then press ENTER

Shows default value or last value selected

**Alarm to Warning time set to**

1 sec

Shows text above for 2 secs  
Then returns to **Calibration configure menu**

Address: Setup / Config / Cal Config / Show Airflow

**Show Air Flow**

ON

OFF

Use +/- to select option Then press ENTER

Shows default value or last value selected

**Show Air Flow set**

ON

Shows text above for 2 secs  
Then returns to **Calibration configure menu**

Address: Setup / Config / Cal Config / Show Time Line

**Show Timeline / Bar Graph**

ON

OFF

Use +/- to select option Then press ENTER

Shows default value or last value selected

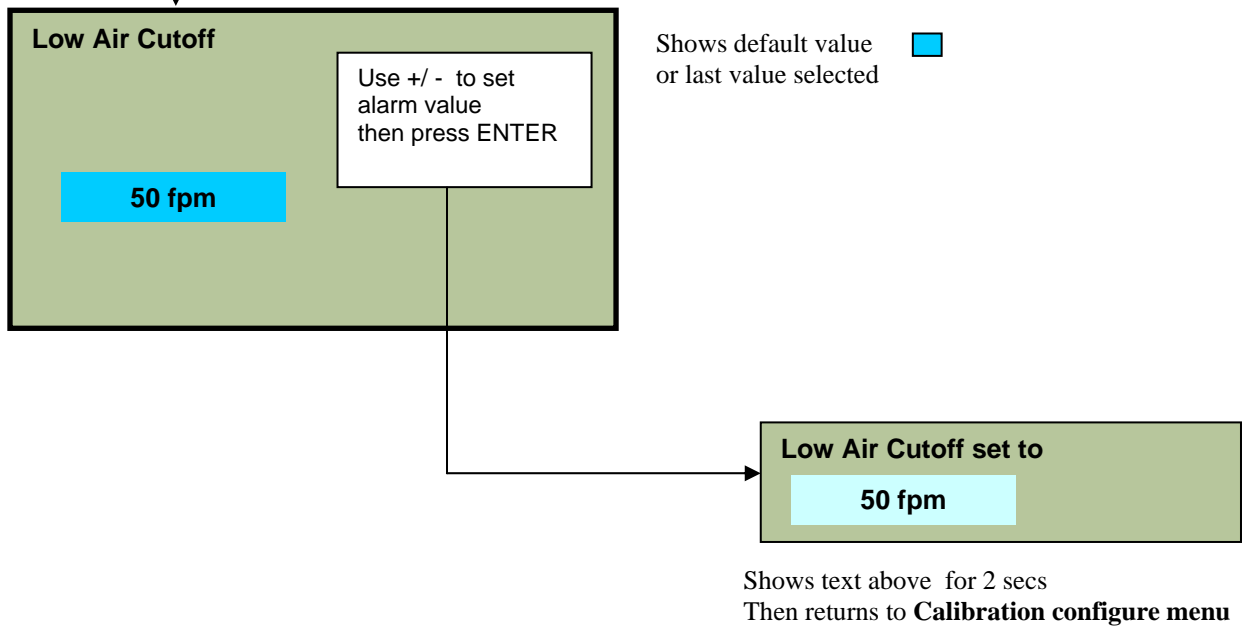
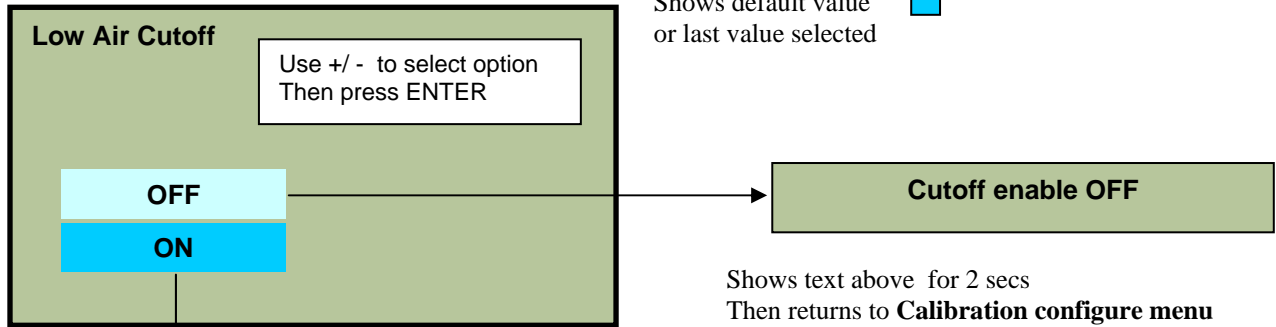
**Timeline / Bar Graph set**

OFF (Bar graph)

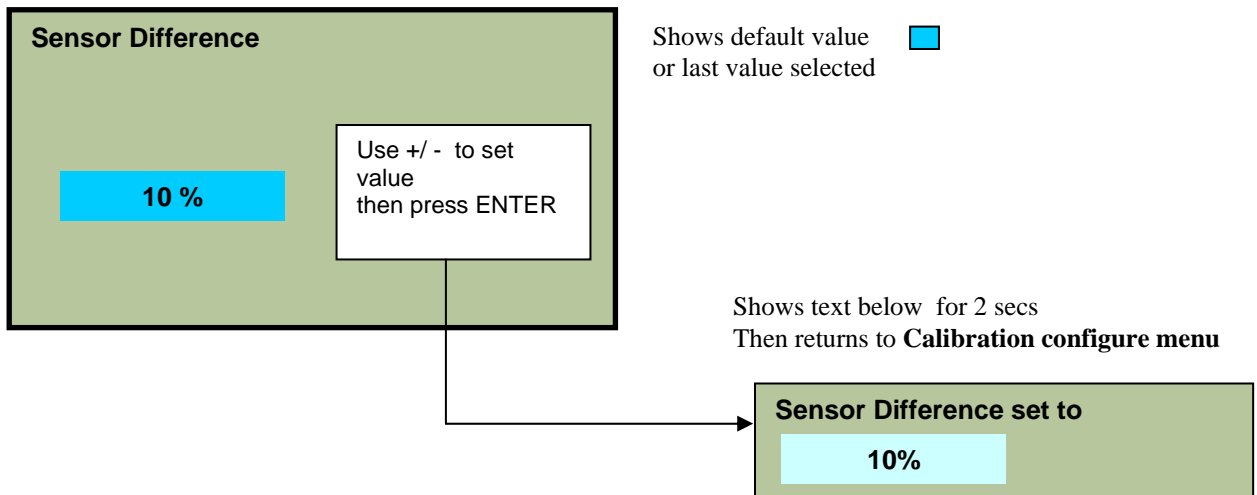
Shows text above for 2 secs  
Then returns to **Calibration configure menu**

# CONFIGURATION – Cal Configure

Address: Setup / Config / Cal Config / Low Air Cutoff

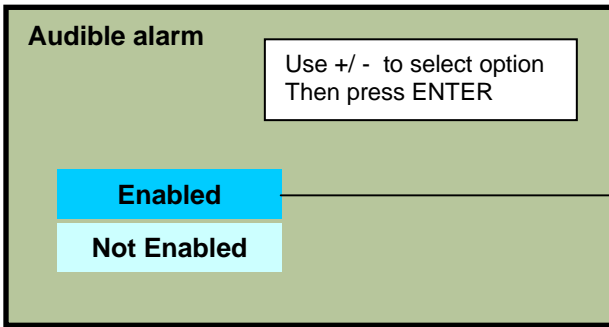


Address: Setup / Config / Cal Config / Sensor Difference



# CONFIGURATION – Cal Configure

Address: Setup / Confiq / Cal Confiq / Audible Alarm

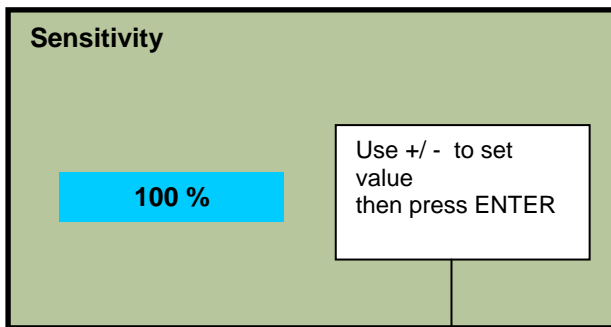


Shows default value or last value selected

Audible Alarm set

Shows text above for 2 secs  
Then returns to **Calibration configure menu**

Address: Setup / Confiq / Cal Confiq / Sensitivity



Shows default value or last value selected

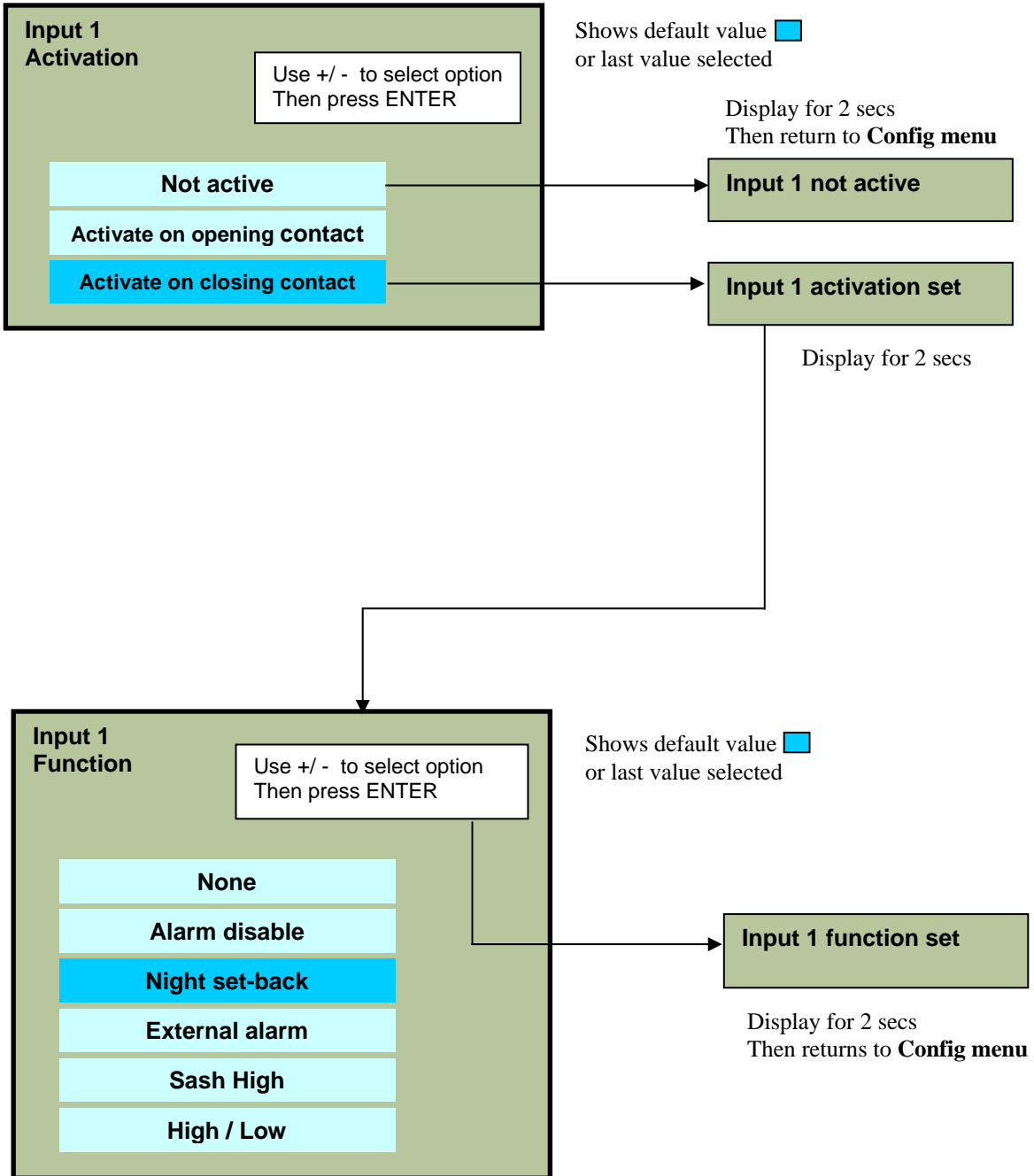
Shows text below for 2 secs  
Then returns to **Calibration configure menu**

Sensitivity set to

100%

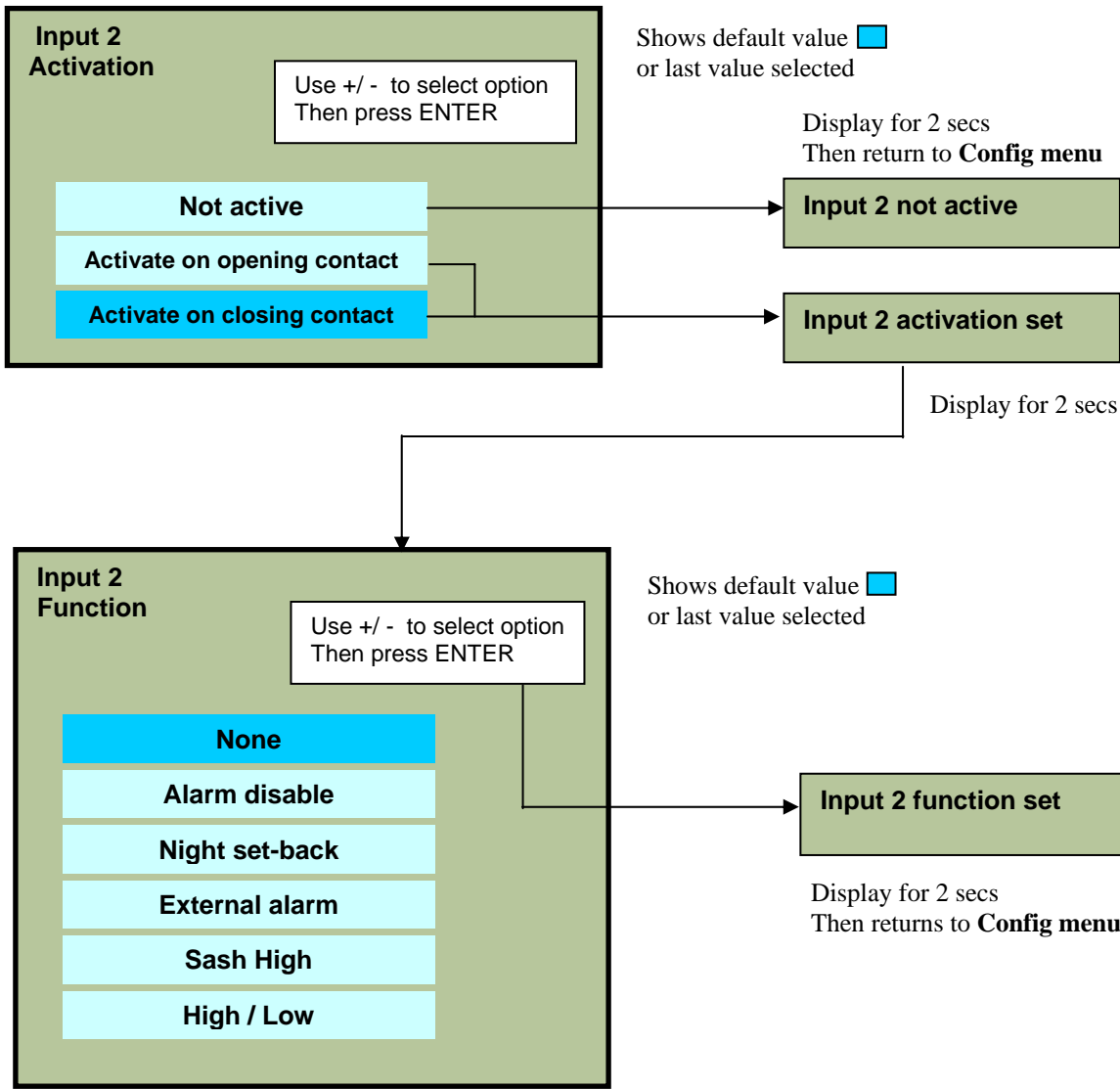
# CONFIGURATION

Address: Setup / Config / Input 1



# CONFIGURATION

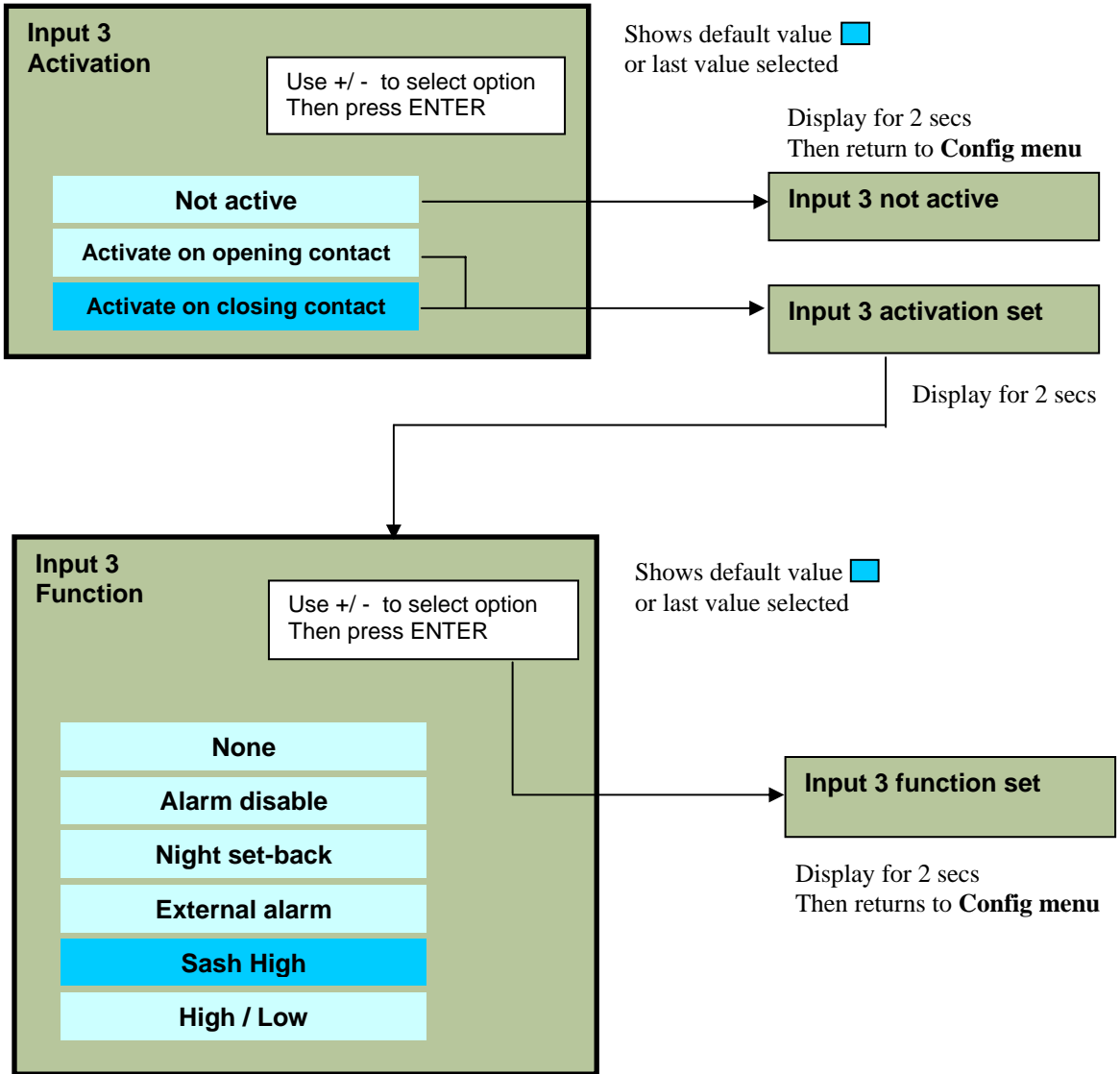
Address: Setup / Config / Input 2





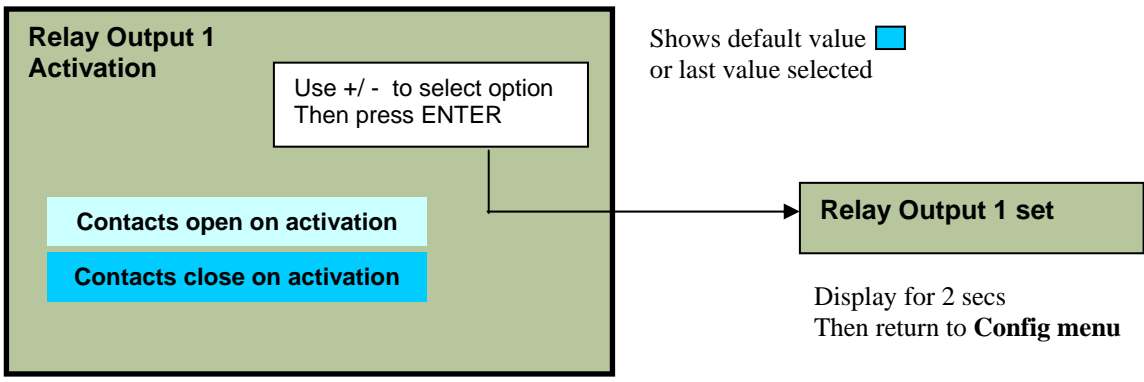
# CONFIGURATION

Address: Setup / Config / Input 3

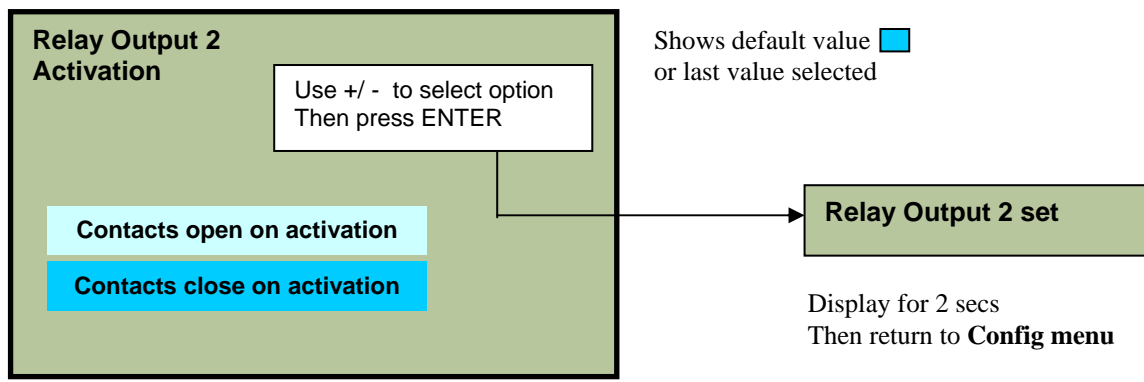


# CONFIGURATION

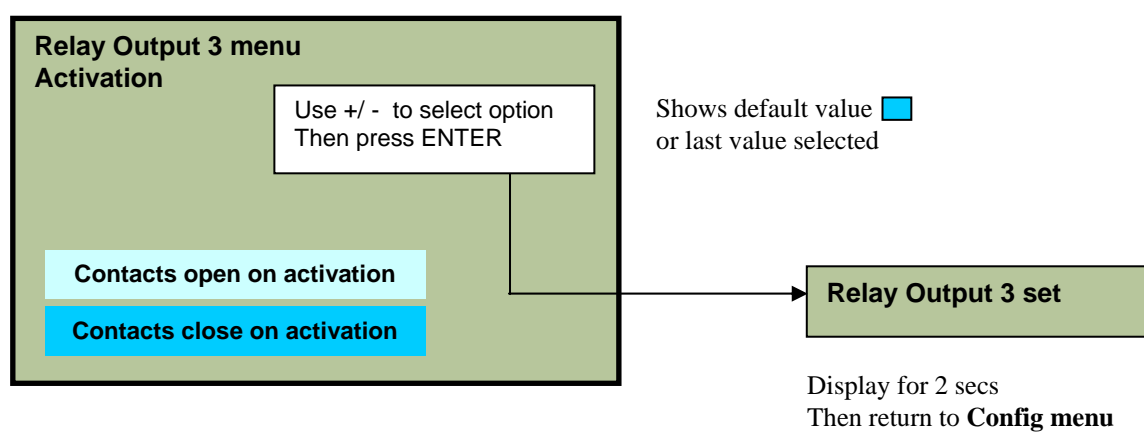
Address: Setup / Config / Relay Output 1



Address: Setup / Config / Relay Output 2



Address: Setup / Config / Relay Output 3



# CONFIGURATION

Address: Setup / Config / Sash High

**Sash High**

Use +/- to select option  
Then press ENTER

Repeat timer off

Repeat timer on

Shows default value  or last value selected

**Sash Repeat timer on**

Display for 2 secs  
Then return to **Config menu**

**Sash high Timer**

Use +/- to set time  
then press ENTER

5 min

Shows default value  or last value selected

**Sash repeat timer set**

Display for 2 secs  
Then returns to **Config menu**

**Sash High alarm**  
Select output relay

Use +/- to select option  
Then press ENTER

None

Output 1

Output 2

Output 3

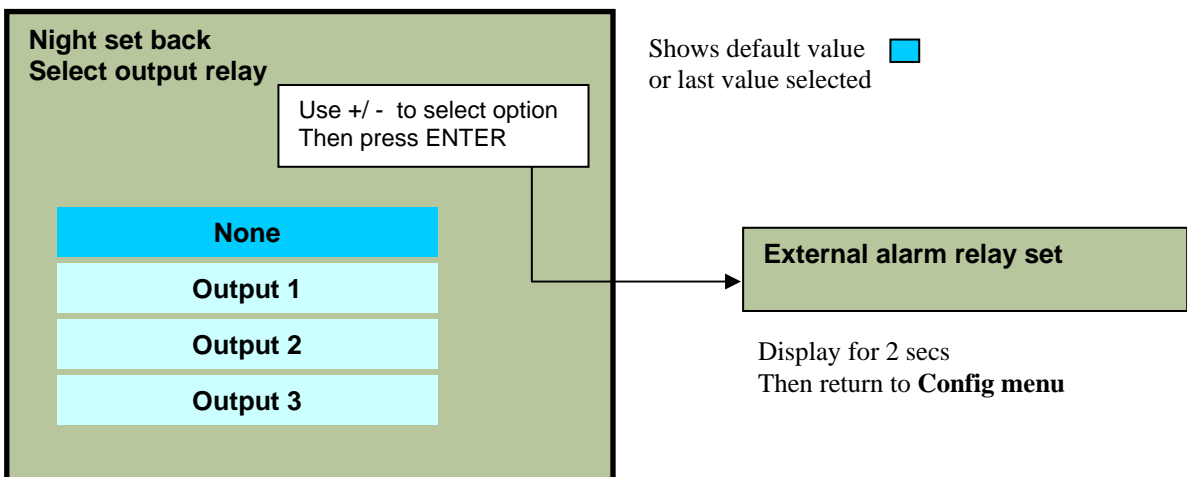
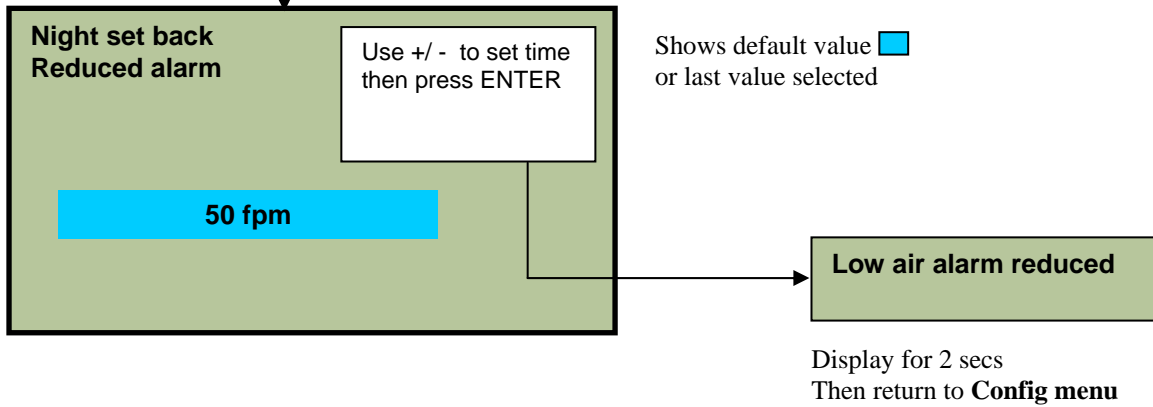
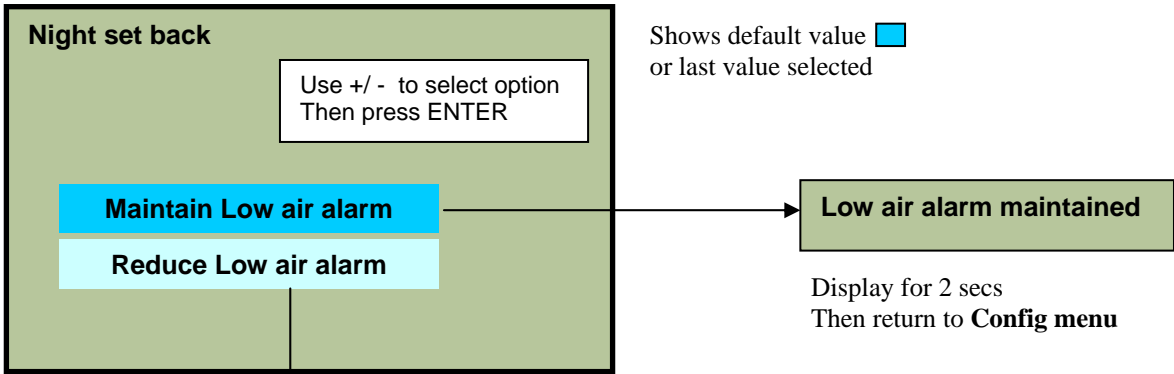
Shows default value  or last value selected

**Sash High alarm relay set**

Display for 2 secs  
Then returns to **Config menu**

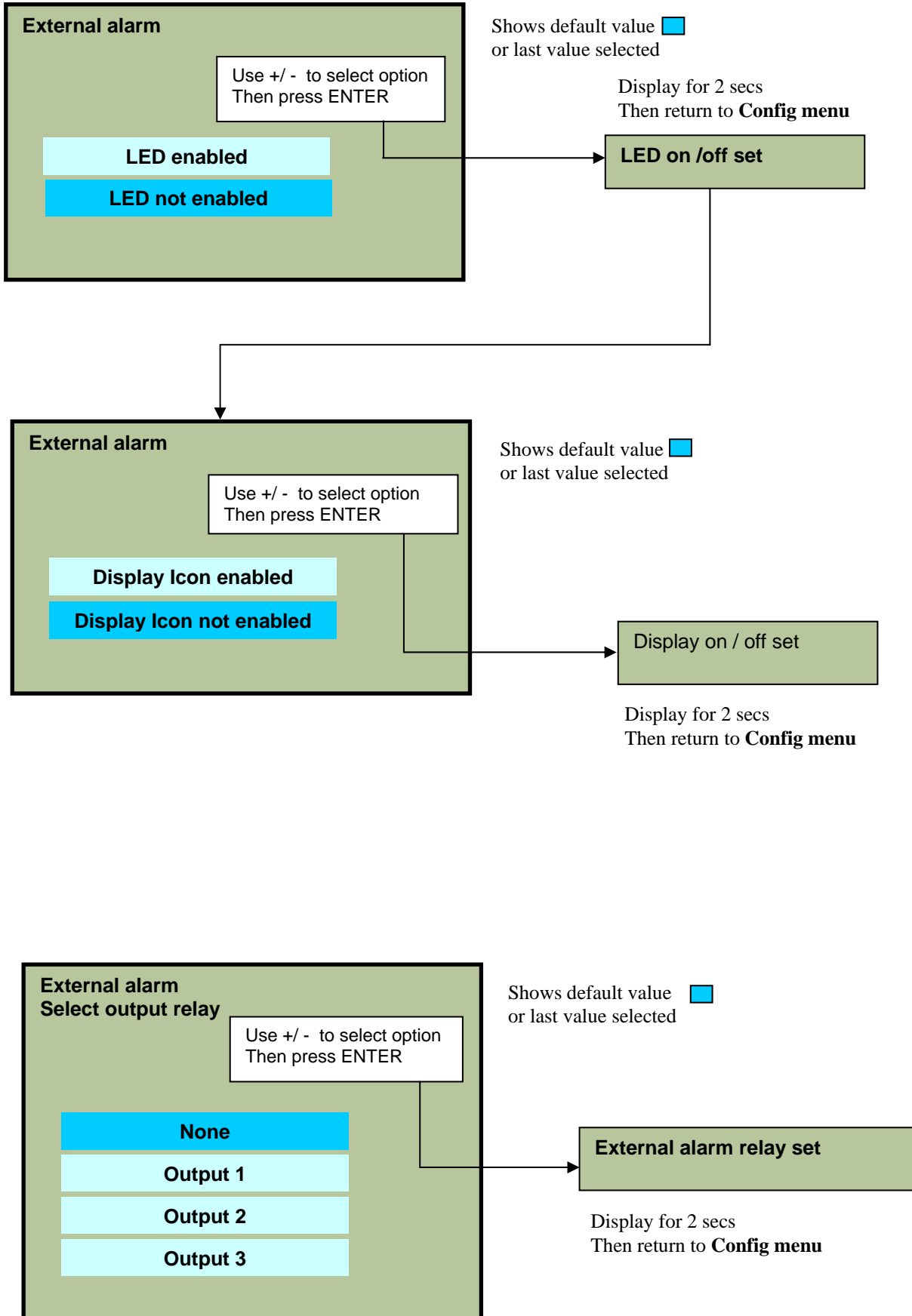
# CONFIGURATION

Address: Setup / Config / Night set back



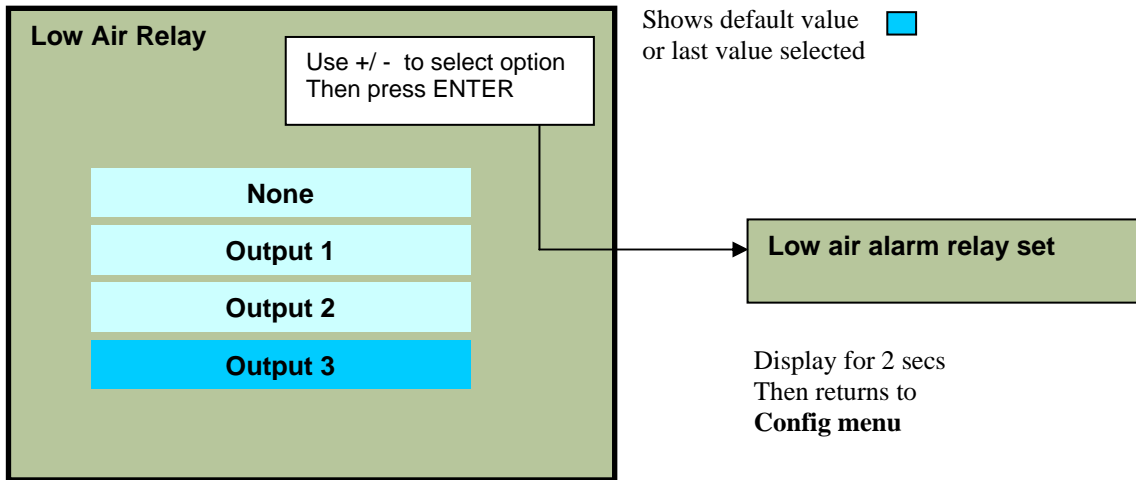
# CONFIGURATION

Address: Setup / Config / External Alarm

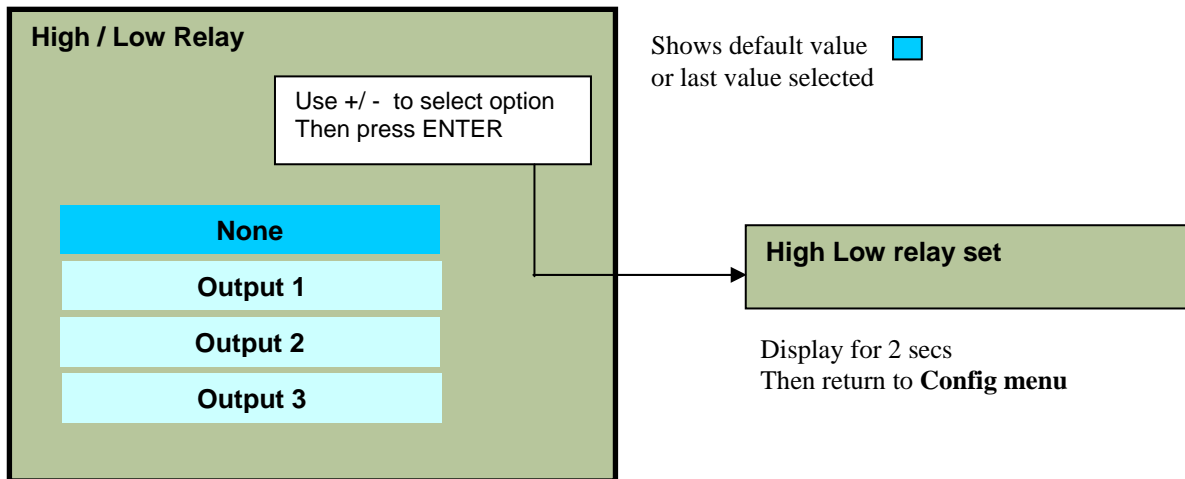


# CONFIGURATION

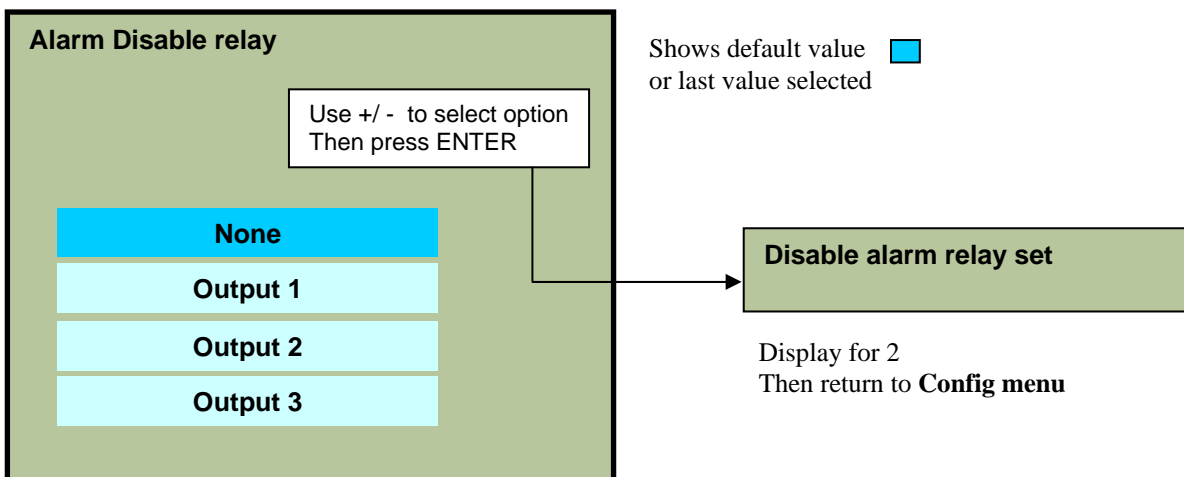
Address: Setup / Config / Low Air Relay



Address: Setup / Config / High- Low Relay

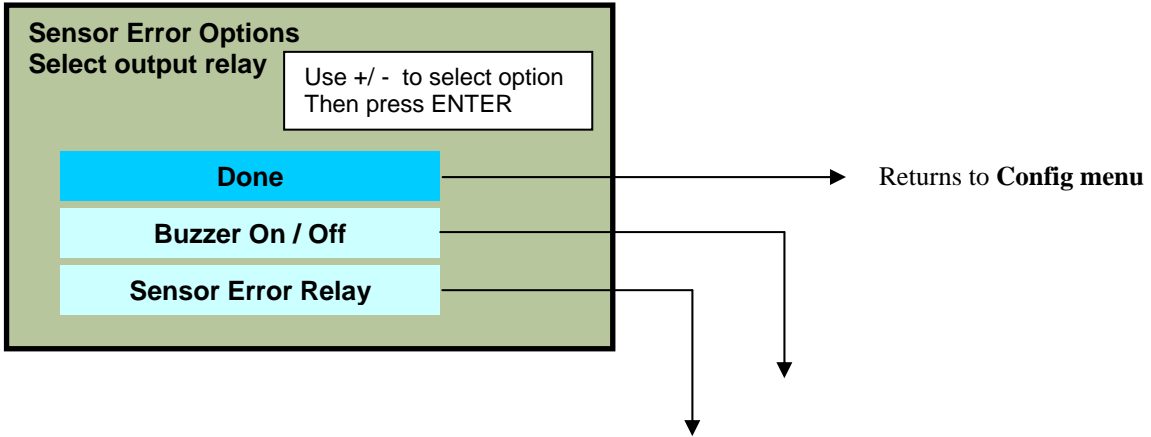


Address: Setup / Config / Alarm Disable Relay

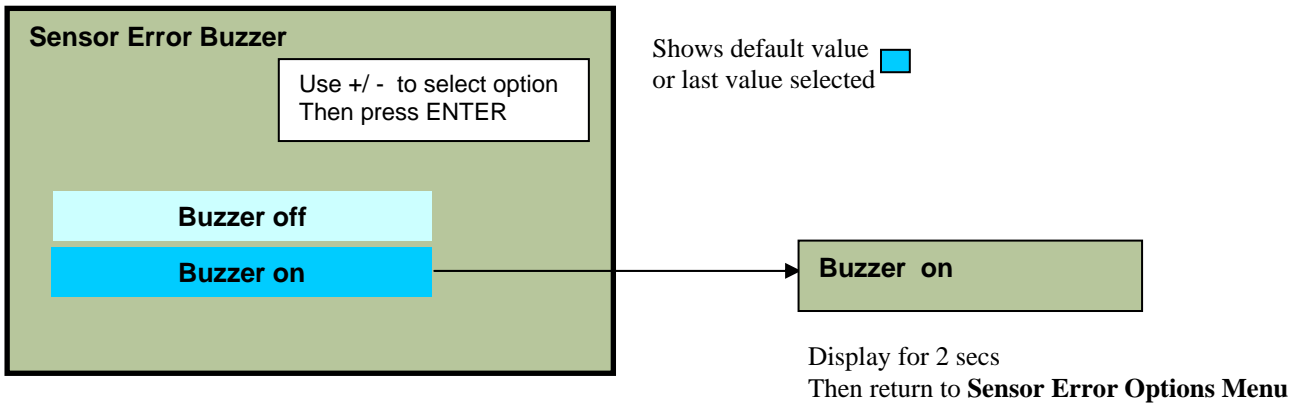


# CONFIGURATION

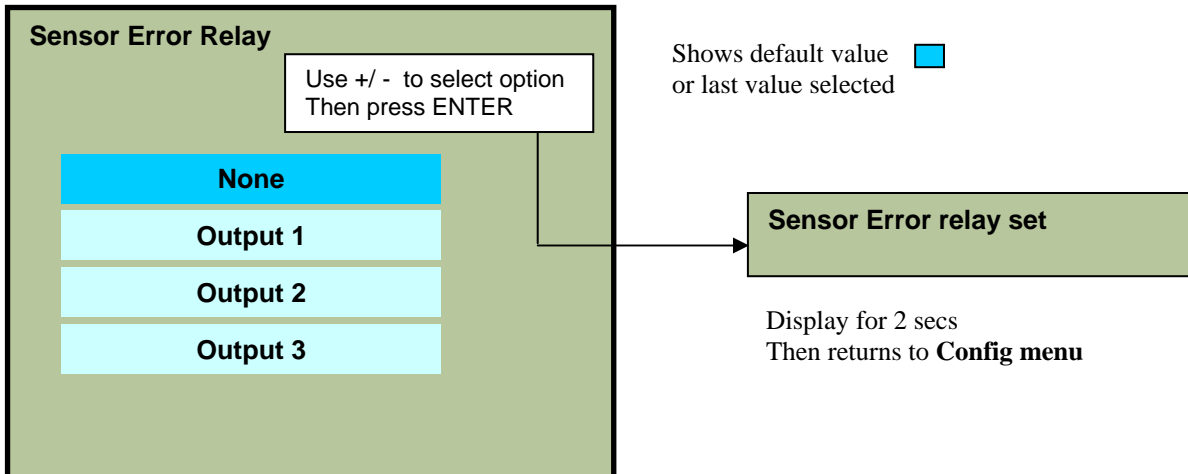
Address: Setup / Config / Sensor Error Options



Address: Setup / Config / Sensor Error Options / Buzzer



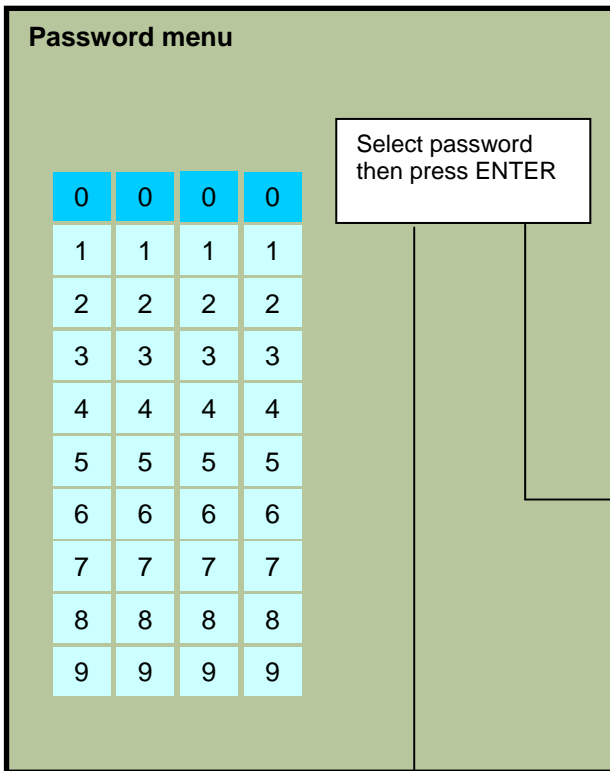
Address: Setup / Config / Sensor Error Options / Sensor Error Relay



# PASSWORDS

This Menu allows the Passwords on the unit to be changed via the display screen and pushbuttons. Access to this menu is via the **Admin** password which is factory set to 0000. The Admin, Configure and Calibration passwords can be changed via this menu.

Address: Setup / Passwords



Use + / - to scroll through the numbers in the first column until the desired number is showing. Then press ENTER, which will set the number and move to the next column. Repeat for each column in turn.

Default value on opening menu :- 

0	0	0	0
---	---	---	---

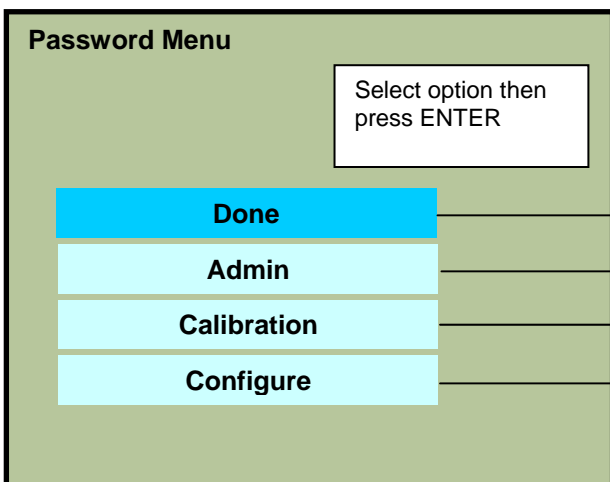
Default password :- 

0	0	0	0
---	---	---	---

**Password incorrect**

For example: display shows text above. Then returns to **Calibration menu password**

On third attempt returns to **Main Menu** and locks out for 10 mins



Shows default value   or last value selected

Returns to **Main menu**

Change / Confirm new passwords individually – then returns to **Password Menu**