



Visio-3 For Controlled Environments



GENERAL OPERATION GUIDE

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Who should use this Guide?

This guide is to be used by any end-user that will interact with the Visio-3 on a regular basis. It describes how to navigate between the screens, how to view and interpret information and understand alarm events if and when they occur.

Powerup

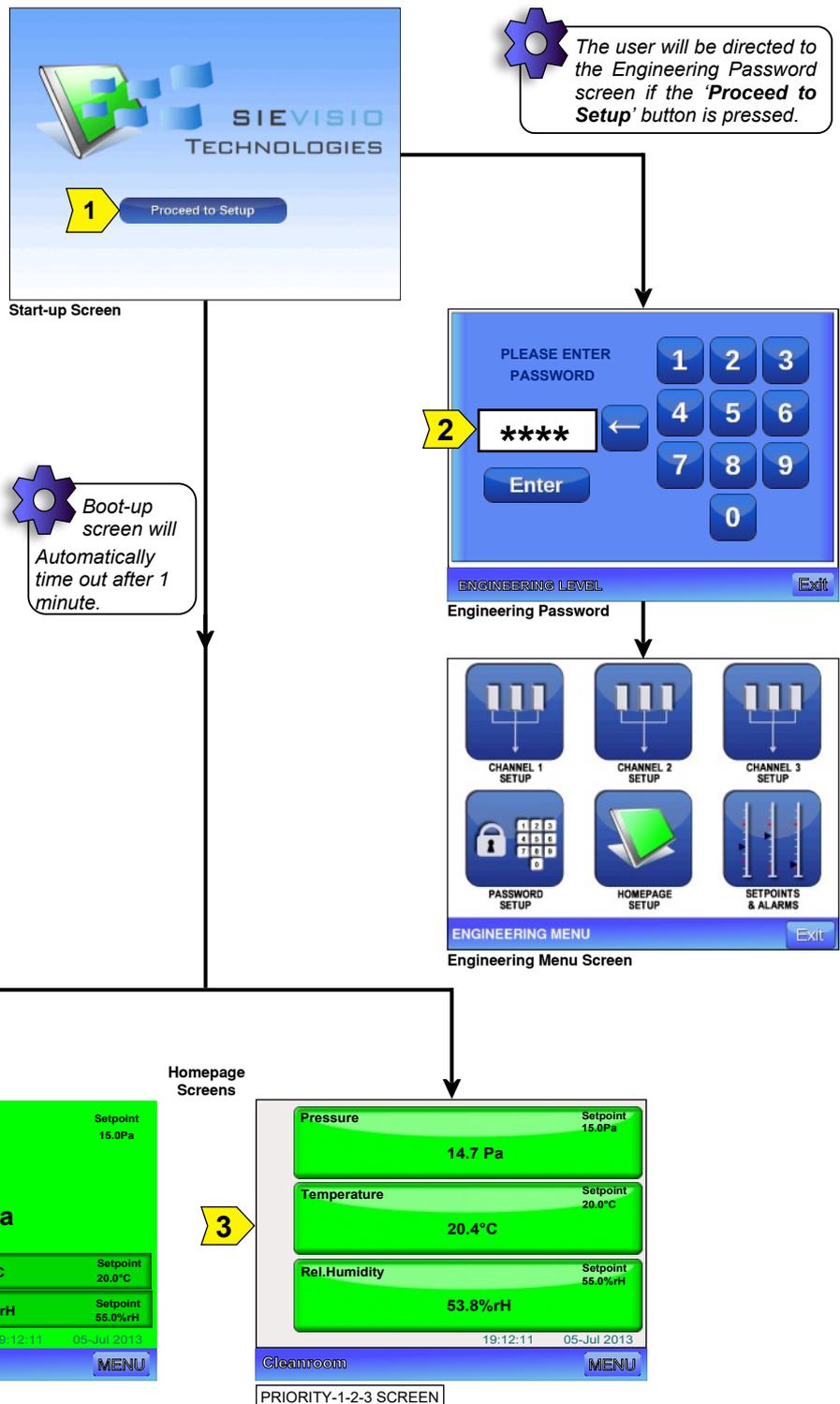
For the purposes of this General Operation Guide it is assumed that the Visio-3 has already been installed and commissioned. (Refer to the Installation Manual for details.)

When the Visio-3 is powered up proceed as follows:

Step 1
Startup Screen
When the Startup screen appears, the user has the choice of proceeding to the setup or wait until the screen times out.

Step 2
If the user proceeds to setup, the password screen shown will appear and the user must enter a valid engineering password.

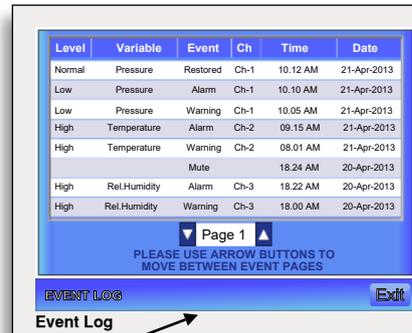
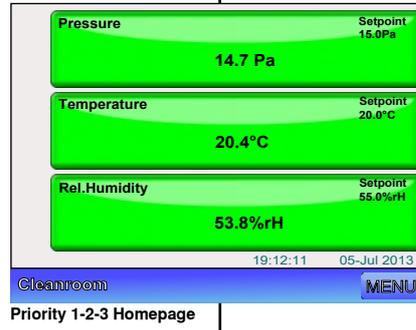
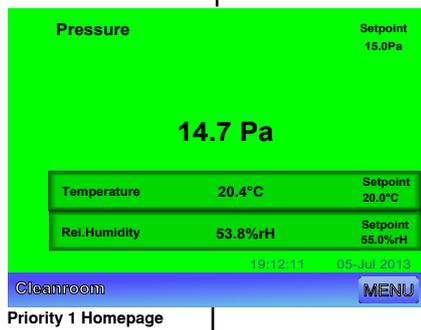
Step 3
Homepage
If the user chooses to do nothing the Boot-up screen will timeout and will navigate the user to the pre-programmed homepage.



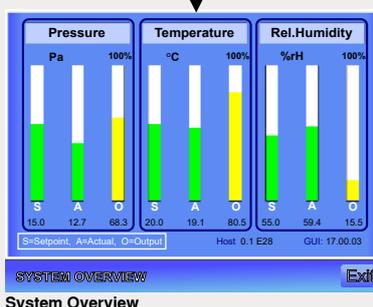
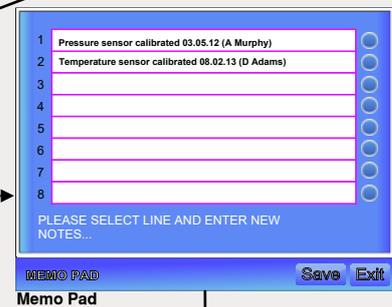
The navigation diagram below shows the navigational options between the screens. Only the Trendlog or Homepage screen can be viewed without the input of a password.



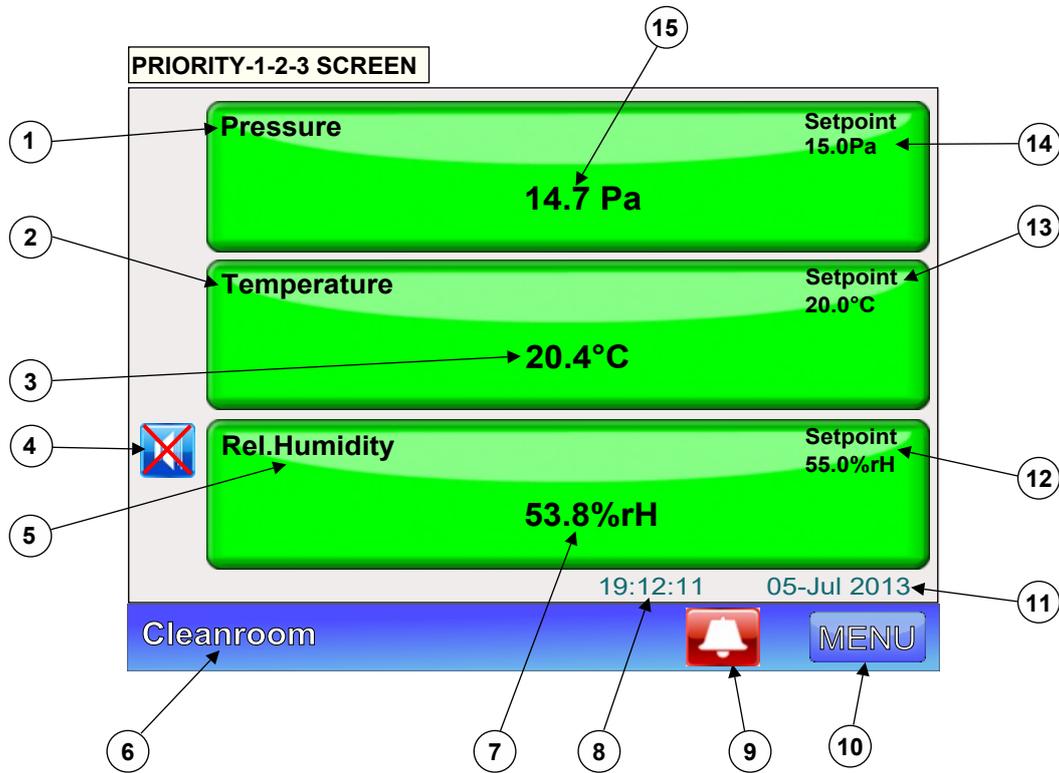
The Visio-3 will be setup as either a Priority-1 screen or Priority 1-2-3 screen at the commissioning stage



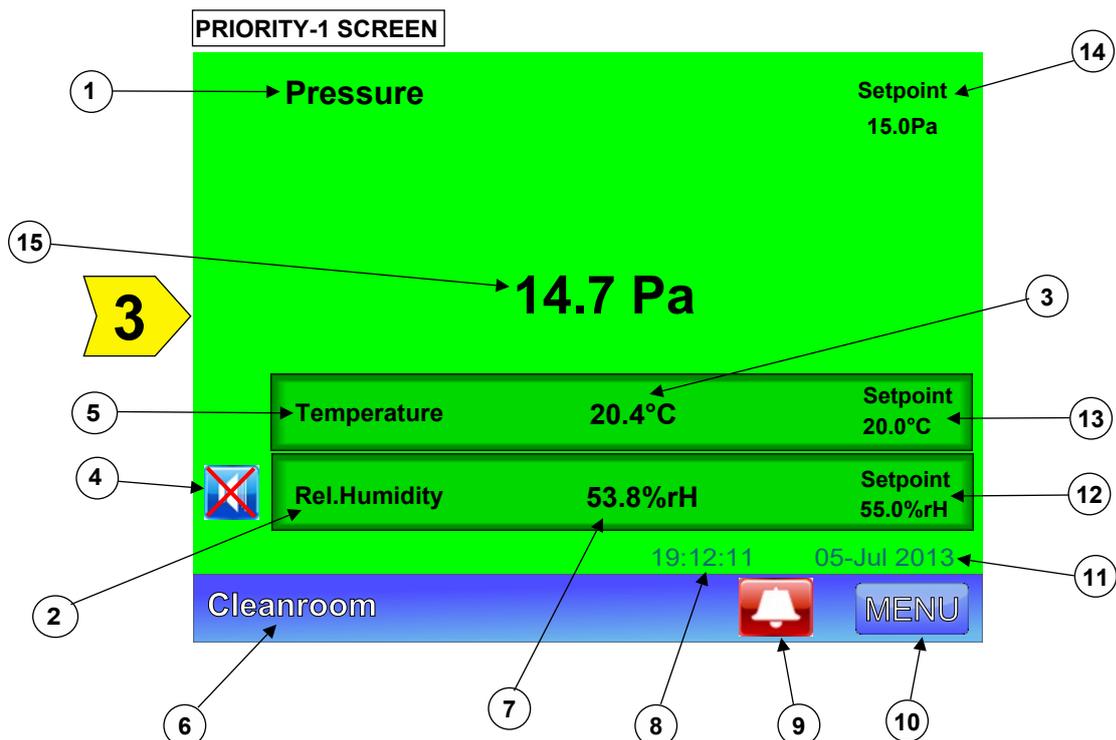
Screens shown in the shaded area can only be accessed by operators with a valid password



The Visio-3 will have been setup to display one of the two homepages displayed below. The priority 1-2-3 homepage is normally used when 2 or 3 sensors are deemed critical and an alarm is required when any sensor deviates from its setpoint. The Priority-1 homepage is used when there is only one sensor critical and the other sensors are used for monitoring purposes only.



1	Channel 1 Sensor Type	6	Area Description	11	Current Date
2	Channel 2 Sensor Type	7	Current Rel-Humidity Reading	12	Rel-Humidity Setpoint
3	Current Temperature Reading	8	Current Time	13	Temperature Setpoint
4	Buzzer Muted Icon	9	Unacknowledged Alarm Icon	14	Pressure Setpoint
5	Channel 3 Sensor Type	10	Button to Access Main Menu	15	Current Pressure Reading



The Trendlog screens provide useful information on the performance of each of the 3 sensor readings for the previous 12 hours. The Trendlog takes a sample every 10 mins thus displaying a total of 72 data samples over a 12 hour period.

Step 1

Viewing Pressure Graph

Press the current Pressure reading to view trendlog.

Step 2

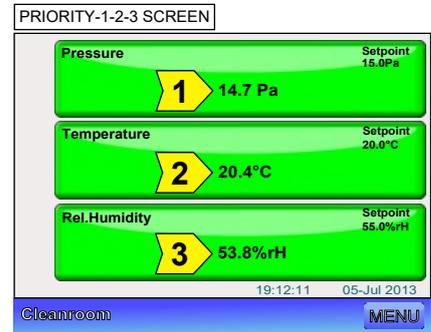
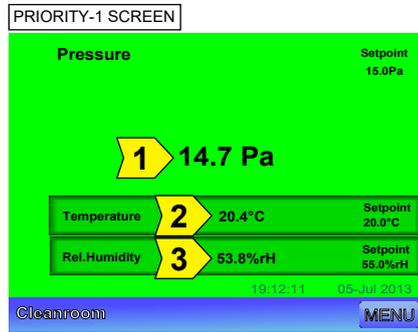
Viewing Temperature Graph

Press the current Temperature reading to view trendlog.

Step 3

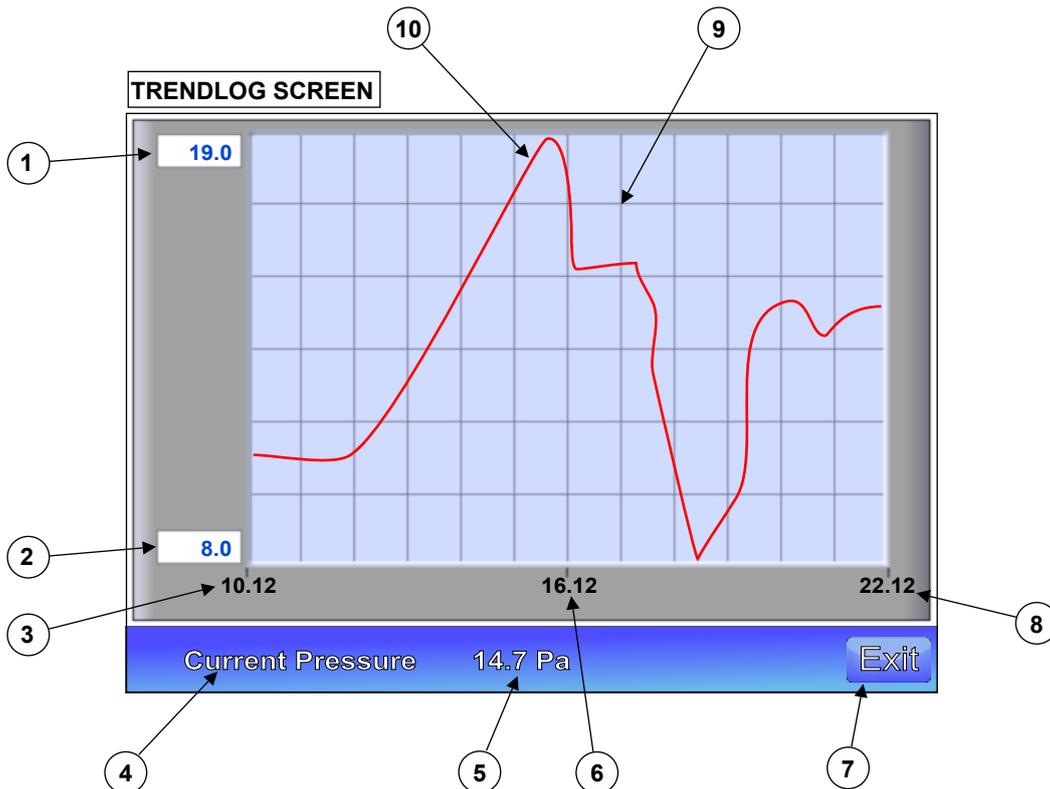
Viewing Rel-Humidity Graph

Press the current Rel-Humidity reading to view trendlog.



The "Trendlog" screen automatically reverts to the "Homepage" screen 90 secs after opening.

1	Highest Reading in past 12 hours	6	Indicates the time 6 hours ago
2	Lowest Reading in past 12 hours	7	Button to return to Homepage
3	Indicates the time 12 hours ago	8	Indicates the time of last Reading
4	Sensor Type	9	Hourly grid line
5	Current Pressure Reading	10	Graph of Pressure Reading



The Event Log screen is used to view historical activity on the Visio-3 and can be a very useful tool in diagnosing potential problems on a system. The operator cannot make any changes to the Event Log but merely view the recorded data.

Step 1

Password

The operator can navigate to the Main Menu when a valid password has been entered here.



Step 2

Main Menu

By pressing the "Event Log" icon the operator can access the Event Log screen to view recent events.

Step 3

Viewing Events

The Event log can store up to a total of 200 entries after which they will then be overwritten. The operator can view the events over 25 pages using the "up" and "down" arrows.



Entry into the Event Log screen will automatically remove the alarm icon on the homepage if the actual alarm condition has cleared.

1	Event Log alarm detail list	5	Record of the time of system power-up
2	Typical "alarm restored" entry	6	Typical "warning" event
3	Typical "alarm" event	7	Indicates the current Event Log page
4	Record of the time of buzzer mute	8	Button to return to Main Menu

EVENT LOG

Level	Variable	Event	Ch	Time	Date
Normal	Pressure	Restored	Ch-1	10.12 AM	21-Apr-2013
Low	Pressure	Alarm	Ch-1	10.10 AM	21-Apr-2013
Low	Pressure	Warning	Ch-1	10.05 AM	21-Apr-2013
High	Temperature	Alarm	Ch-2	09.15 AM	21-Apr-2013
High	Temperature	Warning	Ch-2	08.01 AM	21-Apr-2013
		Mute		18.24 AM	20-Apr-2013
		Reset		18.22 AM	20-Apr-2013
High	Rel.Humidity	Warning	Ch-3	18.00 AM	20-Apr-2013

Page 1

PLEASE USE ARROW BUTTONS TO MOVE BETWEEN EVENT PAGES

Exit

The operator can use the Memo Pad to record an event or simply record a message for other operators to view. This feature can also be used for engineers when calibrations are carried out on the associated sensors.

Step 1

Password

The operator can navigate to the Main Menu when a valid password has been entered here.

Step 2

Main Menu

By pressing the "Memo" icon the operator can access the Memo Pad to review or type a note.

Step 3

Typing a new memo

The operator can select a line by pressing the adjacent button. The keyboard screen will appear and the operator can type the new memo.

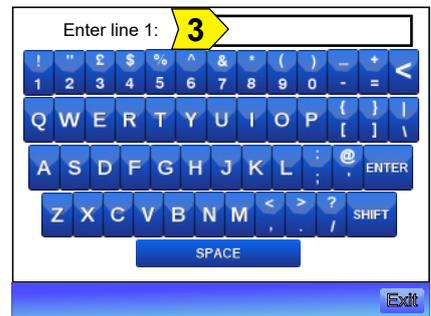
Step 4

Saving & exit

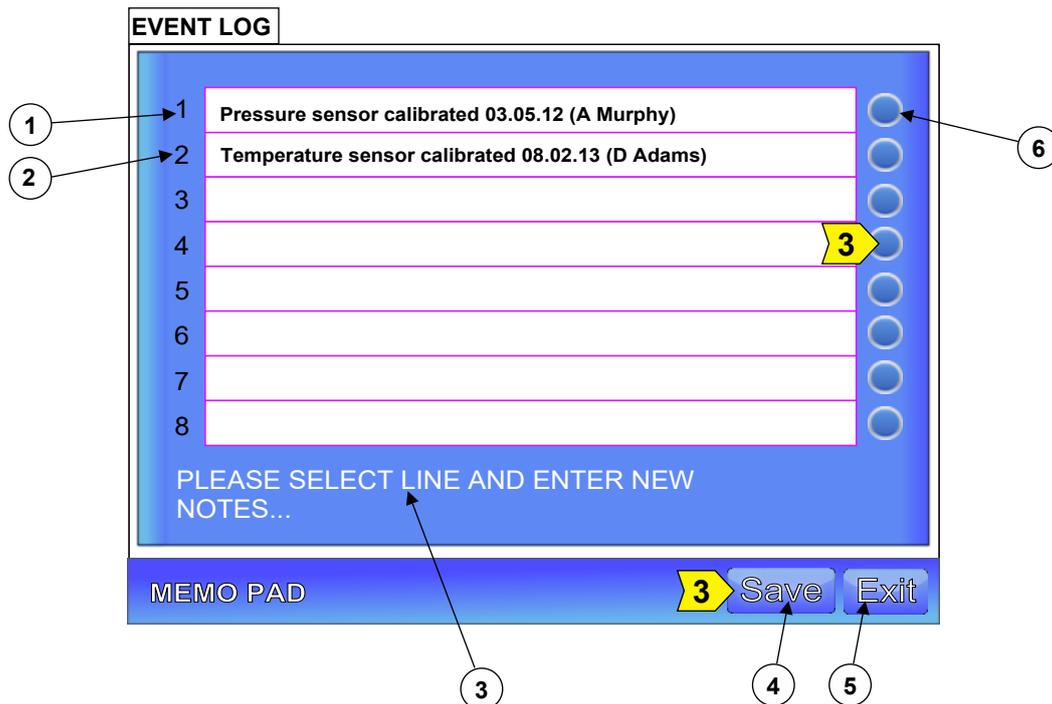
When memo is typed the "Enter" key must be pressed which brings the operator back to the "Memo Pad" screen where they can choose to save and Exit to the "Main Menu".



The memo Pad screen will timeout after 3 minutes if the operator forgets to exit or declines to make a memo entry.



1 Memo description in line 1	4 Message save to memory button
2 Memo description in line 2	5 Button to return to Main Menu
3 Dynamic message to operator	6 Icon to press for Keyboard screen



It is important that the operator understands the alarm features of the Visio-3 because it may compromise the quality of a product or may compromise the health & safety of personnel depending on the Visio-3 application. The alarm handling for a Priority-1 screen is different for that of the Priority 1-2-3 screen and it is for this reason that they will be explained separately.

**Temperature
Rel-Humidity**

These parameters are deemed non-critical in a Priority-1 configured homepage.

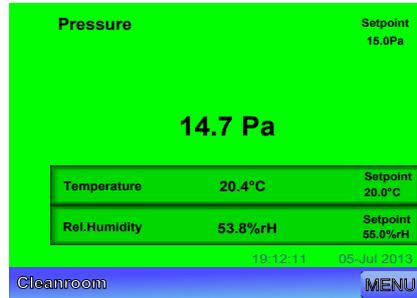
The alarm features differ from the Pressure in that the Visio-3 does not display an alarm message screen when in an alarm state.

When either parameter deviates from setpoint by a pre-set amount, the associated bar changes colour from green to amber thus indicating a warning.

The alarm buzzer will activate every 5 mins for 10 secs.

If the parameter deviates further from the setpoint, the bar will change colour from amber to red thus indicating an alarm. The buzzer will remain active until muted or until the alarm condition disappears.

Priority-1 Screen Alarm Handling



Pressure

This parameter is deemed to be critical in a Priority-1 configured homepage.

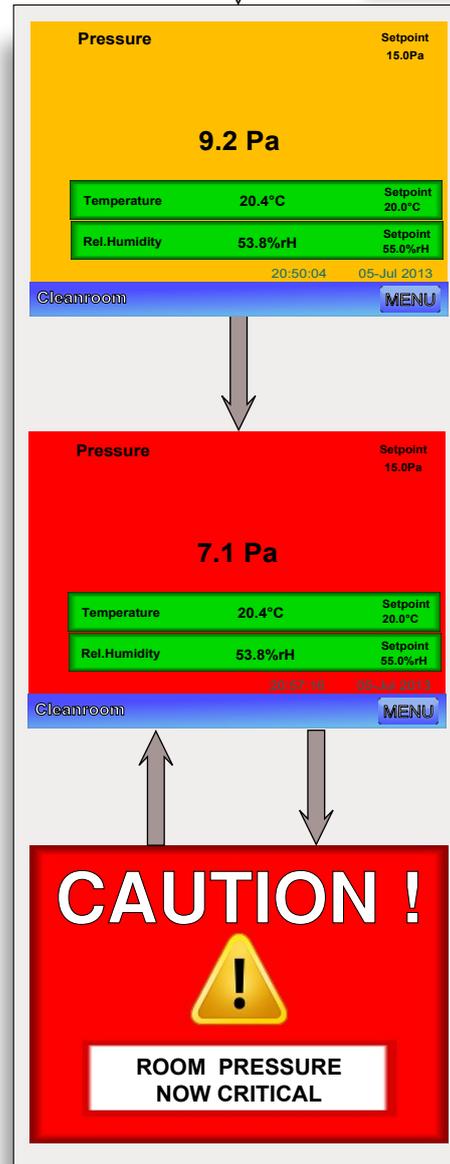
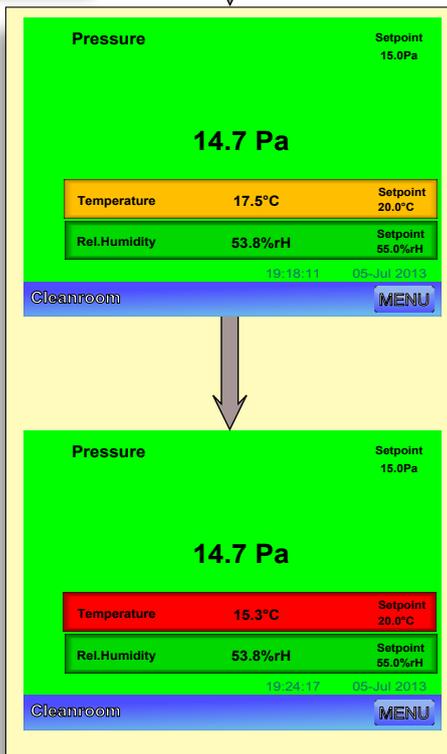
The alarm feature displays an alarm message screen when in an alarm state.

When the Pressure deviates from setpoint by a pre-set amount, the homepage changes colour from green to amber thus indicating a warning.

The alarm buzzer will activate every 5 mins for 10 secs.

If the Pressure deviates further from the setpoint, the homepage will change colour from amber to red thus indicating an alarm. After a 7 sec delay the alarm message screen will appear, remain for 14 secs and subsequently alternate with the homepage for as long as the alarm condition exists.

The buzzer will remain activated until muted or until the alarm condition disappears.



The Rel-Humidity will alarm in a similar way to the temperature with the exception of the buzzer tone. The alarm buzzer for each of the parameters differ which enables the operator to identify the alarm type without having visual contact with the Visio-3.

**Pressure
Temperature
Rel-Humidity**

All 3 parameters are deemed critical in a Priority-1-2-3 configured homepage.

The alarm feature displays an alarm message screen when any of the parameters are in an alarm state. The example here shows what happens when the Temperature deviates from setpoint.

When the Temperature deviates from setpoint by a pre-set amount, the bar changes colour from green to amber thus indicating a warning.

The alarm buzzer will activate every 5 mins for 10 secs.

If the Temperature deviates further from the setpoint, the bar will change colour from amber to red thus indicating an alarm. After a 7 sec delay the alarm message screen will appear and subsequently alternate with the homepage for as long as the alarm condition exists.

The buzzer will remain activated until muted or until the alarm condition disappears.

Priority-1-2-3 Screen Alarm Handling

Pressure Setpoint 15.0Pa
14.7 Pa

Temperature Setpoint 20.0°C
20.4°C

Rel.Humidity Setpoint 55.0%rH
53.8%rH

19:12:11 05-Jul 2013

Cleanroom 1 MENU

Pressure Setpoint 15.0Pa
14.7 Pa

Temperature Setpoint 20.0°C
17.5°C

Rel.Humidity Setpoint 55.0%rH
53.8%rH

19:32:51 05-Jul 2013

Cleanroom 1 MENU

Pressure Setpoint 15.0Pa
14.7 Pa

Temperature Setpoint 20.0°C
16.2°C

Rel.Humidity Setpoint 55.0%rH
53.8%rH

19:41:02 05-Jul 2013

Cleanroom 1 MENU

CAUTION !

ROOM CONDITIONS OUT OF LIMITS



The programmed alarm message will appear if any one of the three parameters go into an alarm state.

Responding to Alarm Events

When the Visio-3 goes into an alarm state the message screen will be alternating with the homepage and the buzzer may be activated depending on the programmed time delays. This section of the Operators Guide details the recommended response for the operator

Step 1

Accessing the Main Menu

The operator can access the Main Menu by pressing the Menu button on the Alarmed-Homepage. This will navigate the operator to the Password screen shown here.

Step 2

Entering a Password

The operator can now enter their password (4 digits) and press enter. If the correct password is entered, the Main Menu screen will appear. If an incorrect password is used, the operator will be navigated back to the Homepage.

Step 3

Silence Buzzer

The operator can choose to mute the buzzer for 20 mins or just snooze the buzzer for a shorter time (typically 5 mins).

Step 4

Viewing Event Log

The operator can view the alarm events in the Event Log and determine the time that the alarm started and the frequency of the alarm.

Step 5

System Overview

The operator can access the System Overview screen by pressing the relevant icon. This screen is gives an overview of all 3 channels.

