Model SRCM Operation

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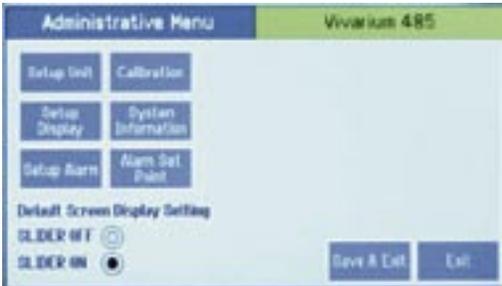
Operation

The following pages describe how to operate the SRCM using the touch-screen interface. The screen has two basic functions. The primary mode of operation displays the Home screen, which shows the end-user pressure values, messages, text, and other data intended for visual pressure verification in the facility. The second mode of operation is the Administrative Menu (Menu) screen, which permits setup, configuration, and changes to how the SRCM operates. After changes have been performed on the Menu screen, functions are saved and operation returns to the Home screen.
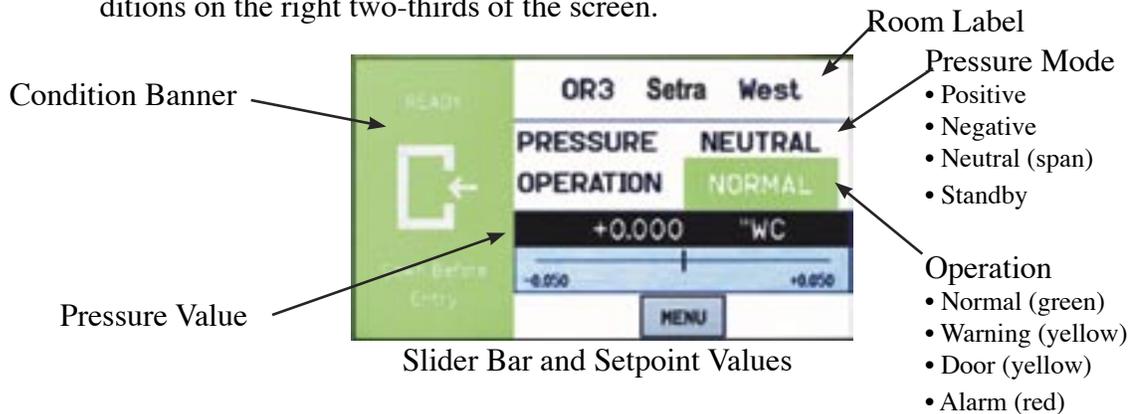

Home Screen

Menu Screen

Home Screen

The Home screen is the normal continuous operating mode of the SRCM. The Home screen shows a Condition Banner on the left one-third of the screen, and Operating Conditions on the right two-thirds of the screen.

Condition Banner →

Room Label

Pressure Mode
• Positive
• Negative
• Neutral (span)
• Standby

Operation
• Normal (green)
• Warning (yellow)
• Door (yellow)
• Alarm (red)

Pressure Value

Slider Bar and Setpoint Values

Condition Banner The Condition Banner is a screen that can be configured by the end-user or facility manager to display a message to staff on the floor. The Condition Banner can be Green, Yellow, or Red, depending on the type of message desired.

The Condition Banner does not affect or respond to pressure in the space. Banner screens are only messages intended to be communicated to staff, personnel, and other people outside the room. The banner does not change color for any alarms, warnings, or changing conditions of the space. The banner may be changed manually, as required, by pressing the touch-screen anywhere within the banner color region.

User defined text →

ENTRY PERMITTED →
graphic (arrow is not intended
to indicate direction of airflow)

User defined text →

Green Condition Banner—shows Entry Permitted graphic, and user defined text above and below graphic image. Use the GREEN banner to indicate room is safe to enter.

User defined text →

STOP graphic →

User defined text →

Red Condition Banner—shows Stop graphic, and user defined text above and below graphic image. Use the RED banner to indicate room is under critical use and entry

User defined text →

Warning graphic →
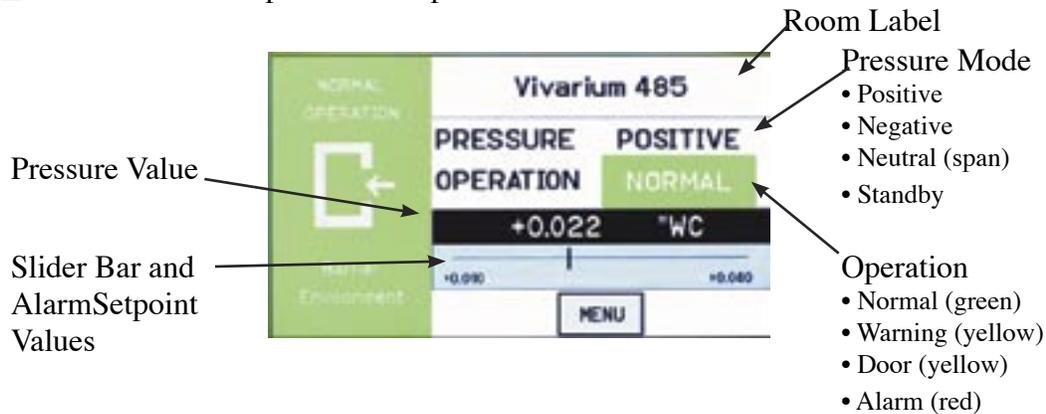
User defined text →

Yellow Condition Banner—shows Warning graphic, and user defined text above and below graphic image. Use the YELLOW banner to indicate room is under transient use and entry is restricted.

Condition Banner – Touch Screen Operation

Once the messages of each of the three Condition Banners are defined in the Menu section, the user can cycle through all three conditions by simply touching the left one-third of the screen in any region. If passwords are enabled, the user will be prompted to enter their password before proceeding. Each of the three colored screens can have a unique message defined. See Section: Setup Display, page 11, for instructions on how to setup the Condition Banner.

When the Operating mode of the SRCM is set for PRESSURE = STANDBY, the top part of all three banners will display STANDBY to indicate that active use of the SRCM has been suspended and no alarms will occur. See Section, Setup Display, page 11, for more information on STANDBY mode.

Operating Condition Screen

The Operating Condition screen shows the user the active operating conditions of the pressurized space.

Room Label

Pressure Mode
• Positive
• Negative
• Neutral (span)
• Standby

Pressure Value

Slider Bar and AlarmSetpoint Values

Operation
• Normal (green)
• Warning (yellow)
• Door (yellow)
• Alarm (red)

The Room Label at the top of the screen can be defined by the user to ensure the viewer understands which room is actively being monitored by the SRCM. See Section, Setup Display, page 10, to enter text for your specific room.

The PRESSURE indication shows the intended direction of airflow for the space. POSITIVE for airflow out of the space, NEGATIVE for airflow into the space, NEUTRAL for airflow conditions that may vary, and STANDBY for use when there is no need to verify the direction of airflow (alarms are disabled).

The OPERATION indication shows whether the pressurized space is within normal operating parameters (within alarm thresholds), or whether there is an alarm or warning condition. If operation is within alarm thresholds, a green NORMAL indication is shown. If operation is near either high or low alarm threshold limits, a yellow WARNING indication is shown.

If operation is at or beyond high or low threshold limits, a red ALARM indication is shown. If Audible Alarming is Enabled, a piezo buzzer will sound and a SILENCE menu button will appear. Pressing the SILENCE button will shut off the alarm for the period of time defined in the alarm configuration. Alarm operation can be configured to blink or sound an audible signal. See Section, Alarm Setup, page 15, for more about setting up ALARM and WARNING conditions

In addition to pressure indication, OPERATION also displays whether a door is open. If a door switch is configured, an open door contact will display a yellow DOOR indication.
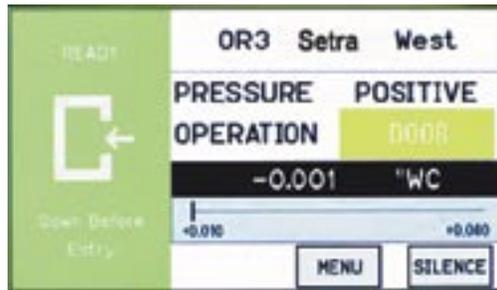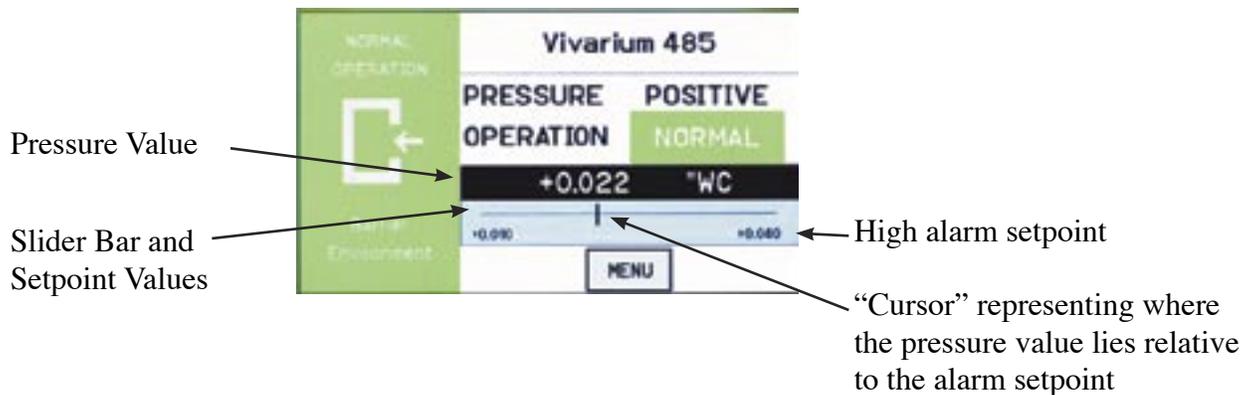
Pressure Value

A black banner displays the actual pressure reading from the space, in either Water Column inches (" WC) or Pascals (Pa). The resolution of display can vary, depending on desired configuration; either 2, 3, or 4 significant digits. The accuracy of measurement remains the same regardless of the number of digits displayed.

Slider Bar and Setpoint Values

The blue banner below the pressure value shows where the current pressure reading is in relation to alarm setpoints. The value at the left of the blue banner is the low setpoint value, and the value on the right is the high setpoint value. The middle "Cursor" represents the curremt measured pressure value.
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Pressure Value

Slider Bar and Setpoint Values

High alarm setpoint

"Cursor" representing where the pressure value lies relative to the alarm setpoint

Slide Bar On/Off   If the user does not wish to see the actual pressure value or slider bar, it can be turned off using the Menu screen. Operation of the pressure sensing and alarming is unaffected. See Section, Menu Screens, page 7 .
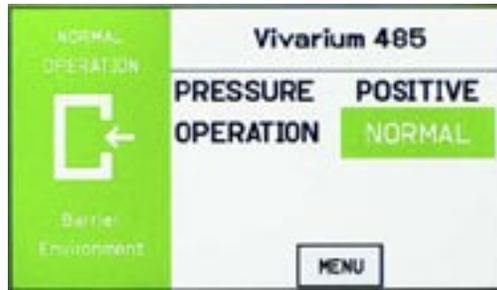
Occupied and Standby Modes   By pressing the touch-screen directly on the word POSITIVE (or NEGATIVE, NEUTRAL, or STANDBY), the user is able to change the condition of the room between OCCUPIED and STANDBY modes. A pop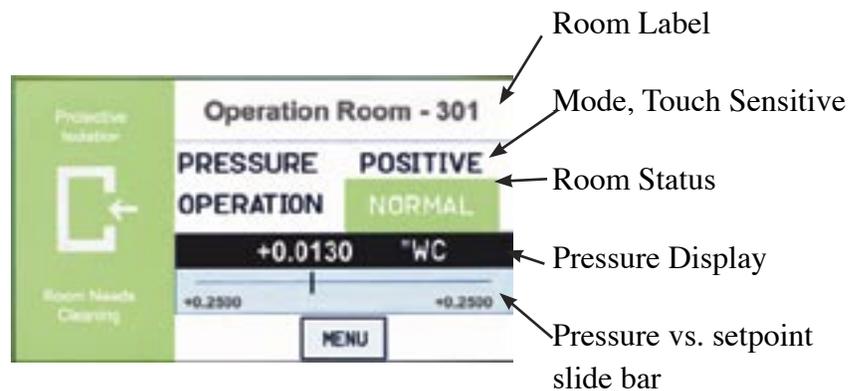-up menu appears to enable selection. If passwords are enabled, the user must first enter a password to proceed with the change.

In OCCUPIED mode, the full function of the SRCM is active. In STANDBY mode, the SRCM will perform all functions except that alarming will be disabled (both audible and visual alarms). The STANDBY mode is designed to put the SRCM into a mode where room pressurization is not critical, such as cleaning, patient transfer, or longer-term unoccupied status.

Room Label

Mode, Touch Sensitive

Room Status

Pressure Display

Pressure vs. setpoint slide bar

Menu Screens

Pressing the MENU button on the Home screen brings up the Administrative Menu (Menu). If passwords are enabled, the user is required to enter the correct password before being authorized to make changes. From the Administrative Menu, the user can set all operating parameters of the SRCM. This includes initial setup, commissioning, calibration, customizing the displays, and warning and alarm parameters.
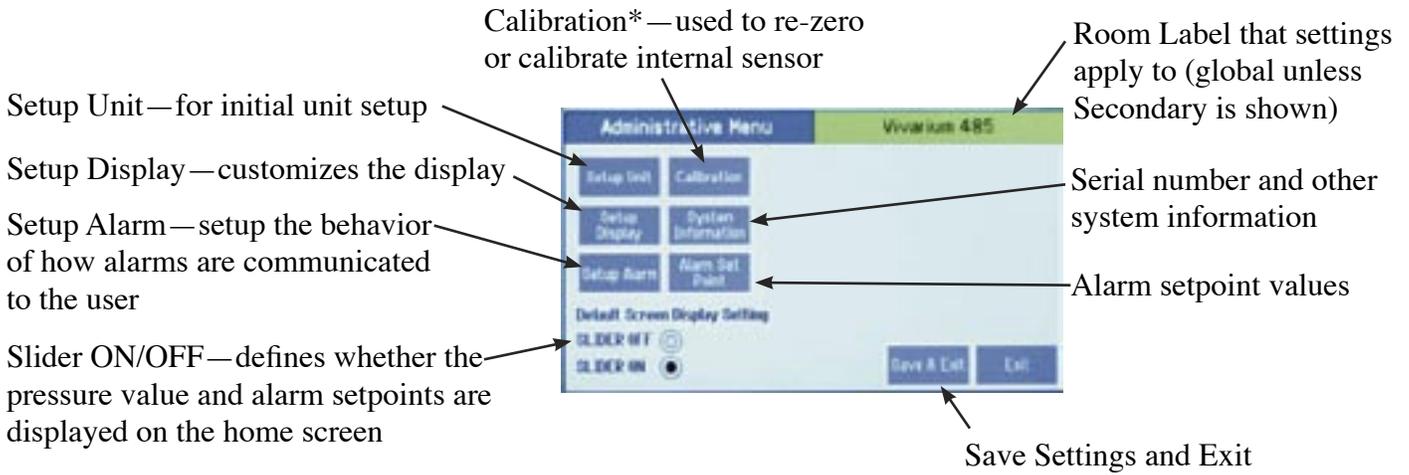
Calibration*—used to re-zero or calibrate internal sensor

Room Label that settings apply to (global unless Secondary is shown)

Setup Unit—for initial unit setup

Setup Display—customizes the display

Setup Alarm—setup the behavior of how alarms are communicated to the user

Serial number and other system information

Alarm setpoint values

Slider ON/OFF—defines whether the pressure value and alarm setpoints are displayed on the home screen

Save Settings and Exit

* Calibration is only required for highly accurate measurement needs such as those needed to comply with federally mandated regulations. See the SRCM Product Data Sheet for more information.

Setup Unit

Upon initial installation, the Setup Unit screen should be used to define installation parameters specific to the job site.

The SRCM can take as input, the signal from two separate pressure transducers. These are configured for either Primary Room or Secondary Room (an anteroom is an example of a secondary room). When two transducers are used, the Home screen display of the SRCM can toggle between each space to indicate the status of each room momentarily, cycling from one to the other a few seconds apart.

Primary Room sensor:
• OnBoard Sensor
• External Ch1
Secondary Room sensor:
• External Ch1*
• External Ch2

Setup selection to configure either Primary or Secondary Room

Pressure signal output (AO) scale and units:
• 4-20 mA
• 0-5 Vdc
• 0-10 Vdc

Room label of selected room, either Primary or Secondary depending on ROOM radio button

Full Scale (FS) range of transducer selected, Primary or Secondary

Pressure units, either " WC or Pa

*If Ch1 is selected for the Primary room, it will not be an available option for the Secondary room.

Primary Room Sensor

Change, if necessary, to match sensor being used. OnBoard is the default, which uses the sensor manufactured on-board the unit. Alternatively, an external sensor (also known as "external transducer" such as a Setra 264 or Setra 267) may be used. If an external sensor is used, change this selection to Analog Ch1. The FS output and range of the external sensor will need to be entered.

Secondary Room Sensor

Change, if necessary, to match sensor being used, if there is one present. None is the default. An external sensor (also known as "external transducer" such as a Setra 264 or Setra 267) may be used for the secondary room, or anteroom. If an external sensor is used, change this selection to Analog Ch1. The FS output and range of the external sensor will need to be entered.

ROOM - Primary Secondary

Use the radio button to select the setup parameters for either the Primary Room or Secondary Room.

Primary Analog Output

This Analog Output (AO) is used to communicate the value of the differential pressure to an external source such as a Building Management System (BMS). The value is scaled as either 4-20 mA, 0-5 Vdc, or 0-10 Vdc, selectable. A normalized pressure value is generated once every 100 milliseconds. The analog output is only available for the Primary room.

Engineering Unit

Units of measurement to show on the Home screen, selectable as either inches of Water Column ("WC) or Pascals (Pa).

Sensor Range

The SRCM is manufactured with an on-board differential pressure transducer. This transducer is manufactured to specifications for fixed minimum and maximum pressure measurement, known as the full-scale range of the transducer. When the on-board transducer is used exclusively, these values cannot change. Alarm setpoints cannot be set above the positive value or below the negative value. If a wider or narrower sensor range is required for the project, an external pressure transducer such as a Setra 264 or Setra 267 may be chosen to match the requirements. See more above under Primary Room or Secondary Room.

If an external transducer is used, the full-scale values and other parameters need to be configured into the SRCM so the unit understands the scale of measure-

If selecting Analog Ch1 or Analog Ch2 for either Primary of Secondary Room, enter full-scale (FS) range that matches the transducer being used

Also enter voltage or milliamp range that matches the transducer being used
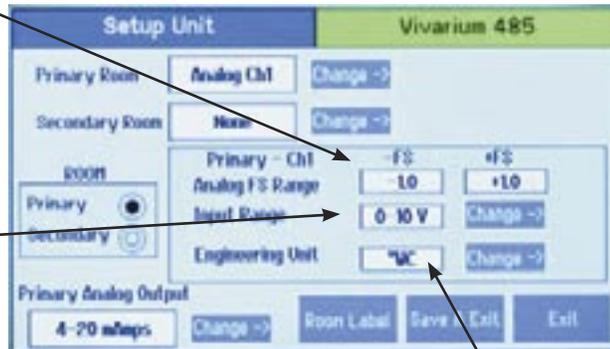
Select desired units of measure to display on the Home screen, either "WC or Pa. The unit of measure for the external transducer must be selected before entering range and output of the unit. After entering all data the units may be changed and the range will scale accordingly.

Changing Room Name

ment being received on the inputs Analog Ch1 or Analog Ch2.
The room name shown on the top part of the Home screen is changed using the Room Label button. The Room Name entry box appears in the middle of the Setup Unit display. Depending on whether the Primary or Secondary ROOM radio button is enabled, the matching Room Name entry box appears.

Press anywhere in the Room Name selection box to bring up the on-screen keyboard to enter the room label text desired. Be sure to press the Save button under the text entered before leaving this screen.
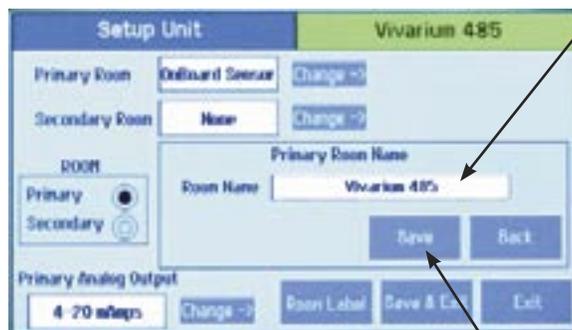
Touch anywhere within the Room Name entry box to bring up the on-screen keyboard and enter text.

Press Save after text entry is complete.

Data Entry screen with QWERTY keyboard

Use CAP-ON button to switch between lower-case and upper-case lettering and other characters

When finished with data entry, select Enter to confirm, or ESC to cancel and return to the previous screen
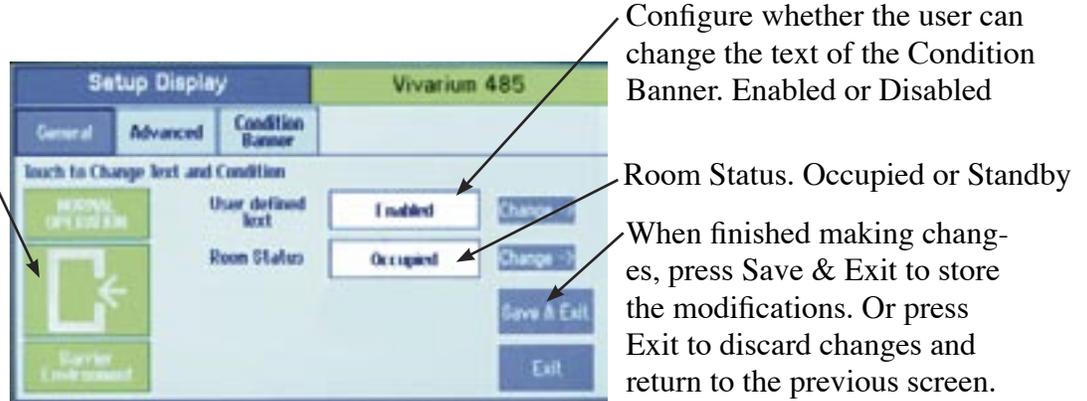
Setup Display

The Setup Display screen permits authorized users (based on password level) to configure Condition Banner messages and other Home screen options. There are three tabs for display customization; General, Advanced, and Condition Banner.

General Tab–Customizing the Condition Banner

The General tab allows the user to define messages for each Condition Banner color. Pressing anywhere in the colored region of the Condition Banner changes each selection between GREEN, YELLOW, and RED. By pressing on the colored region of text, the on-screen keyboard pops up, enabling data entry. If User Defined Text is Disabled, then data entry on the Condition Banner will not be permitted.

Configure whether the user can change the text of the Condition Banner. Enabled or Disabled

Change color and text of Condition Banner by pressing anywhere in the colored region

Room Status. Occupied or Standby

When finished making changes, press Save & Exit to store the modifications. Or press Exit to discard changes and return to the previous screen.

Advanced Tab– Customizing the Operation Condition Screen

The Advanced tab allows the user to make refinements in how information is displayed on the Operating Condition section of the Home screen. The display contrast level is adjusted using Adjust Contrast Level, with selections from 1-4. After modifying this parameter, press Save & Exit to view the brightness and contrast on the Home screen display. Depending on the lighting and viewing conditions in the final space, different contrast levels can improve readability of the SRCM.

Primary Pressure Resolution
The number of significant digits displayed for the pressure value

Define Supervisor and Operator passwords. Enable or Disable use of passwords
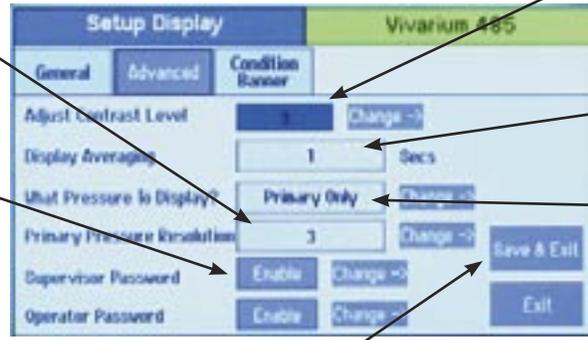
Contrast level of Home screen. Adjust from 1-4 for readability in varying lighting conditions

Display Averaging. Select a value from 1-40

What Pressure To Display:
• Primary Only
• Secondary Only
• Toggle

When finished making changes, press Save & Exit to store the modifications. Or press Exit to discard changes and return to the previous screen

Display Averaging (tenths of seconds)

This function is used to improve the stability of the pressure value displayed on the Home screen, so significant digits do not change rapidly. It is used more often in environments where the user requires higher display resolution (4 digits) but the ambient pressure is unstable. By increasing the number, the effective number of measured data points is increased and a weighted average is developed. Input the number in tenths of a second for the response time of the display to a pressure change. There is no ratcheting of the display or a deadband. The pressure change is very smooth. For example, entering 10 equates to the display reaching final value in 1 second. Entering 2 equates to final value in 200 ms.

Display Averaging does not affect the Analog Output response time, only the apparent stability of the pressure display. Display Averaging also does not affect Alarm Thresholds or Alarm Delay.

What Pressure To Display

This function defines what pressure value is shown on the Home screen under normal operating conditions. This can be Primary Only, Secondary Only, or Toggle, depending on what room is most important for visual pressure verification.

If this is set to Primary Only, then the Home screen will show the pressure value read by the primary pressure transducer (either on-board, or the alternate primary transducer configured from a separate transducer, if one is used).

If a secondary transducer is in use, and an alarm condition occurs in the secondary room, the display will toggle and remain on the secondary room and pressure value as long as the alarm condition is present in that space.

If this is set to Secondary Only, then the Home screen will show the pressure value read by the secondary pressure transducer (anteroom for example). In this case, if an alarm condition occurs in the primary room, the display will toggle and remain on the primary room and pressure value as long as the alarm condition is present in that space. If no Secondary Room is configured on the Setup Unit screen, attempts to choose Secondary Only will result in the error "Secondary room source is NONE."

If this is set to Toggle, then the Home screen will show the pressure value read by both transducers, alternating back and forth momentarily. If an alarm condition occurs in either room, the display will toggle to the appropriate room and pressure value and remain on that room as long as the alarm condition is present. If both rooms are in alarm, then the alarm condition and pressure values will toggle

Supervisor and Operator Passwords

The password function provides security against changed configurations by unauthorized users. This is accomplished by using two levels of password protection. These can be enabled or disabled.
The Operator level allows access to change between Occupied and Standby room modes, but no other changes.


The Operator is the person that has day-to-day interaction with the monitor to change operating modes from Occupied mode to Standby (where no alarms are active), the operator can also respond to local audible and visual alarms. This can be a Nurse or a Lab Technician. The SRCM was designed to make interaction with the unit as easy as possible for the Operator. Changes to messages and to the room mode requires simply touching active areas of the display. If Operator Password is enabled then a password will be needed before the change can be made.

The Supervisor Level allows full access to all menus. The Supervisor has access to all levels of the menu structure. This mode is used during initial configuration and follow-on reconfiguration.

NOTE: The master Supervisor password is 351, and will work for any condition where a user may need to reset passwords.

Condition Banner Tab-Customizing Blinking Screens

The Condition Banner tab allows the user to choose whether certain parts of the screen blink or not. Blinking components on the Home screen are intended to draw more attention to the Condition Banner or the OPERATION indicators, for the purpose of making exception conditions more noticeable to staff concerned with room pressurization status.
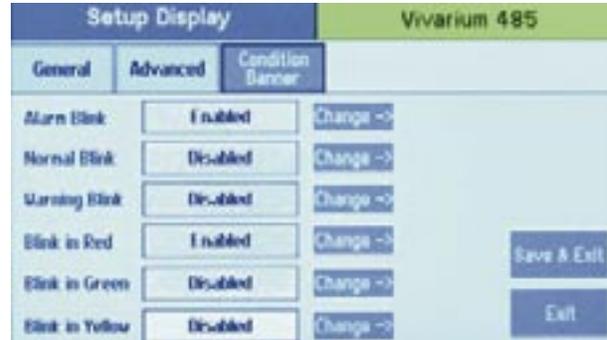
Alarm Blink	Defines the behavior of the red ALARM indicator on the Home screen. Normal Blink is used for the green NORMAL indicator.
Warning Blink	Applies to the yellow WARNING, DOOR indicator.
Blink in Red/Green/Yellow	Applies to the Condition Banner messages and icon on the left one-third of the Home screen.
Save & Exit	Saves the selections made on this screen.

Setup Alarm

The Setup Alarm screen permits authorized users (based on password level) to configure alarm behavior, such as the duration of alarms, methods of clearing alarm condition, and how alarms are acknowledged.

Define which room the Setup Alarm conditions will apply to

For each room (Primary or Secondary), define whether the room pressure will be Positive, Neutral, or Nega**tive**

Latch Alarm	If enabled, causes the display of red ALARM on the Home screen to remain, even if room pressurization returns to NORMAL. Latch Alarm enabled requires that an alarm event be acknowledged and that the pressure returns to within the normal range. This is useful because it forces recognition that an alarm event occurred. The alarm will still be on even if the pressure returns to normal range. Only when the alarm is acknowledged will alarming cease. When disabled, the alarm will be silenced when the pressure returns to normal range without requiring acknowledgement. When a Latch Alarm occurs, the Home screen displays a RESET button to the right of the Menu button. Press the RESET button to acknowledge and reset the Latch Alarm condition.
Alarm Delay	Time between when the pressure went outside alarm setpoints and when the unit goes into alarm mode. This is useful in preventing false alarms. For example, if Alarm Delay is set to 20 seconds, the staff has 20 seconds to open a door, enter the room and close the door before the alarm sounds (if audible alarms are enabled). Alarm Delay also applies to alarms annunciated to a remote annunciator via the SRCM Digital Output (hardware configuration).

Audible Alarm	Enables or disables the audible buzzer. Regardless of whether audible alarming is enabled or disabled, the red ALARM condition will show on the Home screen, annunciate to an SRAN, and propagate to a configured Digital Output. If an alarm occurs and the audible alarm is enabled, a new SILENCE button will appear on the Home screen so that the operator can silence the audible alarm. The audible alarm is silenced only for the period of time defined by Mute Time Out.
Mute Time Out	Sets the time (in seconds) that the alarm will remain silent after pressing the SILENCE button before the audible alarm resumes again. This assumes that the room pressure condition is still outside the normal setpoint operating limits. Mute Time Out can be set from 0 to 9998 seconds. Entering a value of 9999 will silence the audible alarm "forever," as long as a new alarm condition does not occur.
Digital Input (DI)	Used for monitoring the door status, open or closed. The DI is a Normally-Closed dry contact. A door jamb or valve pressure switch must be wired to the terminals labeled DOOR in the rear of the unit. When the door opens the contact will open, and this will show a yellow DOOR Warning on the Home screen.
Deadband	is adjustable from 0 to 10% and represents the region within the setpoint range where yellow WARNING is displayed on the Home screen to indicate that the pressure is near ALARM limits. If set to 0, no WARNING will occur, only ALARM when the pressure value reaches setpoints. If set to any other value, WARNING will be displayed if the pressure value reaches that percentage of total pressure setpoint range. When the unit goes outside of the deadband range the alarm will occur. The alarm will remain until the pressure returns within the alarm limit range (or acknowledged Latch alarm) minus the setpoint.
Buzzer Volume	The buzzer volume can be adjusted from one—four, with four being the highest sound level. The alarm buzzer is disabled using audible Audible Alarm disable function.

Alarm Set Point

For each space, Primary Room or Secondary Room, this screen is used to define the alarm setpoints. When the room is then set to Positive, Neutral, or Negative, the setpoints and conditions configured here are in effect for alarm and warning conditions.

Alarm Matrix

The SRCM has a great deal of flexibility to define alarm conditions. Alarms and warnings can be configured for primary and secondary rooms, and for the door. Room display can toggle between Primary and Secondary. The following table outlines what will occur in terms of priority and display under normal and alarm conditions.

N=Normal; A=Alarm

Toggle	High Priority		Display Text (Maximum eight characters)	Background	Remarks
	Primary Pressure	Secondary Pressure			
Disabled	N	N	Normal	Green	Displays primary pressure or secondary pressure based on the selection
Disabled	N	A	Alarm	Red	
Disabled	N	A	Alarm	Red	Pressure has higher priority
Disabled	N	A	Alarm	Red	Pressure has higher priority
Disabled	N	A	Alarm	Red	Pressure has higher priority
Disabled	A	N	Alarm	Red	If Primary Room is selected in the pressure to display
Disabled	A	N	Alarm	Red	
Disabled	A	N	Alarm	Red	1.Pressure has higher priority. 2.Corresponds to Primary Room/ Secondary based on the selection by the user.
Disabled	A	N	Alarm	Red	
Disabled	A	A	Alarm	Red	
Disabled	A	A	Alarm	Red	
Disabled	A	A	Alarm	Red	
Disabled	A	A	Alarm	Red	
Enabled	N	N	Normal	Green	Toggle between primary and secondary.

Toggle	High Priority		Display Text (Maximum eight characters)	Background	Remarks
	Primary Pressure	Secondary Pressure			
Enabled	A	A	Alarm	Red	Pressure has high priority
Enabled	N	A	Alarm	Red	Pressure has high priority. Secondary Alarm. Stop toggling.
Enabled	N	A	Alarm	Red	Pressure has high priority. Secondary Alarm. Stop toggling.
Enabled	N	A	Alarm	Red	Primary Alarm. Stop toggling.
Enabled	A	N	Alarm	Red	Pressure has high priority.Primary Alarm. Stop toggling.
Enabled	A	N	Alarm	Red	Pressure has high priority.Primary Alarm. Stop toggling.
Enabled	A	N	Alarm	Red	Pressure has high priority.Primary Alarm. Stop toggling.
Enabled	A	N	Alarm	Red	Pressure has high priority.Primary Alarm. Stop toggling.
Enabled	A	A	Alarm	Red	Shows both primary and secondary alarm by toggling
Enabled	A	A	Alarm	Red	Shows both primary and secondary alarm by toggling
Enabled	A	A	Alarm	Red	Shows both primary and secondary alarm by toggling
Enabled	A	A	Alarm	Red	Shows both primary and secondary alarm by toggling

Calibration and Self-Test

This page is used for calibration of the internal pressure transducer sensor and testing operation of hardware circuitry. Calibration is only required for highly accurate measurement needs such as those needed to comply with federally mandated regulations. Calibration should only be performed by qualified personnel.
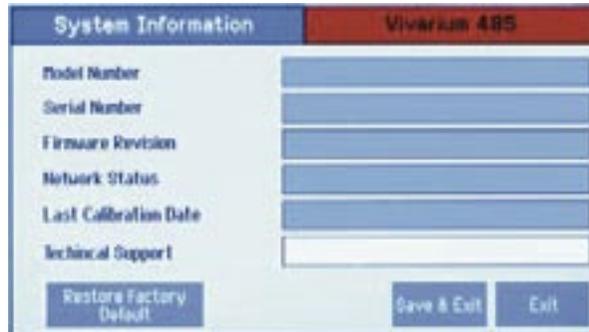

1.Select Primary or Secondary room. When selected, the gray box to the right will indicate if the calibration will be applied to the on-board sensor or the external sensor (Analog Ch1 or Analog Ch2). The indicated pressure is shown.

2.Calibration of the on-board sensor requires that the faceplate be removed and the captive screw holding the display cover must be loosened (at the bottom-center of the display bracket).

3.Lift the cover to expose the clear and red tubing connecting the on-board sensor to the pressure fittings in the rear of the unit.
4. Remove the Tubing

Zero Adjust	Pressing Zero Adjust button will bring up a "Is zero pressure applied?" message. If yes, press OK. If the zero measurement is within 10% of the factory zero measurement stored in the unit, the zero value will be reset.
Span Adjust	This requires the use of a Pressure Calibrator, such as a Setra Model 869 or equivalent. Connect tubing from the Calibrator to the low and high ports identified near the PCBA markings. Apply Full Range pressure, for example $\pm$ 0.1" WC range, use 0.1" WC. When pressure reaches Full Range pressure, press OK button. The output at Full Range must be within 10% of the factory calibration to allow re-adjustment.
Restore Factory User Zero and User Span	If the unit has been mis-calibrated in the field, the factory zero and span settings can be restored.
Test	The Buzzer, Relay and Internal Memory checksum can be tested and verified.

System Information

The System Information screen reports Model Number, Serial Number, Firmware Revision, Network Status, Last (Factory) Calibration Date and Technical Support Contact.

| Technical Support	Any string 30 characters or shorter can be entered in this field by pressing anywhere in the white text entry box to enable the pop-up keyboard. Enter an email address, name, or phone number as needed.
Restore Factory Default	Restores the default settings for all configuration and setup screens. All configured settings, including alarm thresholds and audible alarming, that were modified after installation will be lost if this function is used. Primary and Secondary Room Labels will show "???." Normal operation of pressure measurement will not be affected.

USB Configuration Cloning

The SRCM has USB port built in for the purpose of duplicating configurations when multiple units are being setup with similar configurations. To use this function, a USB 2.0 thumb drive of capacity 256 megabytes or larger must be used. The thumb drive must have at least 100K or free memory available. The USB port should only be accessed by qualified personnel.

Setra recommends the Kingston DataTraveler 112, 4GB (minimum) flash drive along with the aid of a short mini-USB adapter cable from Tensility International Corporation, P/N 10-00003. No PC is required.

Manufacturer	Model	Size (GB)	Comment
Kingston	DataTraveler	1	No issue
		256 MB	No issue
	DataTraveler	4	To make Kingston work, format as:
	DataTraveler	8	• Fat 32 • Must have volume label • Do not use quick format
	DataTraveler 112	4	Passes out of the box without formatting
Sandisk	Cruzer	2	To make Sandisk work, format as:
		4	• Fat 32
		16	• Must have volume label • Do not use quick format

To access the USB port, first remove the faceplate cover and set it aside. The USB port is located on the right side of the touch-screen display driver board, and is accessed by removing the security screw and flipping up the display housing. A mini-USB 5-pin Male to USB A Female cable (from Tensility International Corporation, P/N 10-00003) is required to connect a standard USB 2.0 compliant thumb-drive to the SRCM USB port.

To make use of the cloning feature, first setup one SRCM with a configuration that represents most other SRCM units that will be used during installation. Configure the "master" unit with all parameters needed, including alarm thresholds, condition banners, blinking operations, I/O configuration and so on. Make sure the Save & Exit function is used to properly save your configuration. This "master" setup will then be downloaded to the thumb drive and for use uploading to other units.
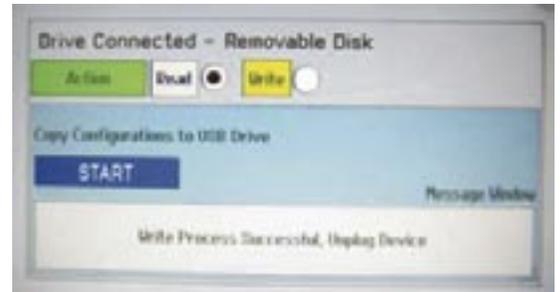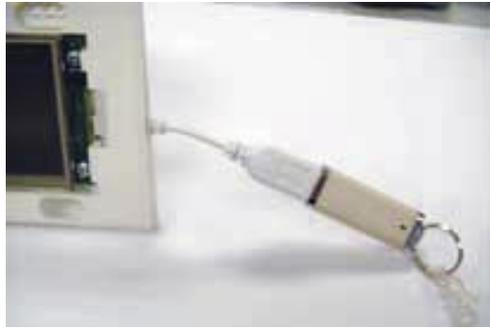
As soon as the thumb drive is connected the SRCM it will be recognized and bring up a Drive Connected menu.

• Select Read to transfer the master SRCM configuration from the unit to the thumb drive.

• Select START to initiate the copy operation.

Remove the thumb drive and cable and move to the first "slave" unit to be configured. With power applied to that unit, connect the thumb drive and cable. Select Write and START to write the master configuration to the new slave unit.

A Write Process Successful message will appear if the configuration has been
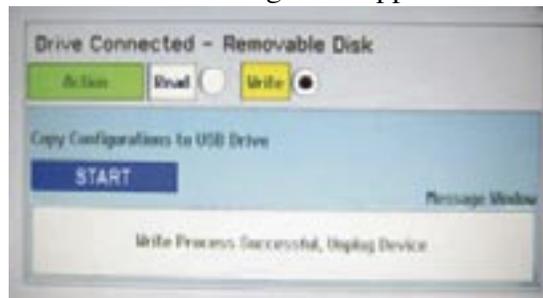
written to memory. Review the various Menu screens of the slave unit and subsequent units to confirm the proper configuration is stored. In most cases the only change that will be required to clone SRCM units is Primary and Secondary Room labels that match the location of installation.

RETURNING PRODUCTS FOR REPAIR

When returning a product to Setra Systems, the material should be carefully packaged and shipped prepaid to:
Setra Systems, Inc.
159 Swanson Road
Boxborough, MA 01719-1304
Attn: Repair Department
To assure prompt handling, please refer to return instructions on our Web site at http://www.setra.com/tra/repairs/cal_rep.htm.

WARRANTY AND LIMITATION OF LIABILITY

SETRA warrants its products to be free from defects in materials and workmanship, subject to the following terms and conditions: Without charge, SETRA will repair or replace products found to be defective in materials or workmanship within the warranty period; provided that:

a) the product has not been subjected to abuse, neglect, accident, incorrect wiring not our own, improper installation or servicing, or use in violation of instructions furnished by SETRA;

b) the product has not been repaired or altered by anyone except SETRA or its authorized service agencies;

c) the serial number or date code has not been removed, defaced, or otherwise changed; and

d) examination discloses, in the judgment of SETRA, the defect in materials or workmanship developed under normal installation, use and service;

e) SETRA is notified in advance of and the product is returned to SETRA transportation prepaid.

Unless otherwise specified in a manual or warranty card, or agreed to in writing and signed by a SETRA officer, SETRA pressure, humidity, and acceleration products shall be warranted for one year from date of sale.

The foregoing warranty is in lieu of all warranties, express, implied or statutory, including but not limited to, any implied warranty of merchantability for a particular purpose.

SETRA's liability for breach of warranty is limited to repair or replacement, or if the goods cannot be repaired or replaced, to a refund of the purchase price. In no instance shall SETRA be liable for incidental or consequential damages arising from a breach of warranty, or from the use or installation of its products. No representative or person is authorized to give any warranty other than as set out above or to assume for SETRA any other liability in connection with the sale of its products.

For all CE technical questions, contact Setra Systems, USA. EU customers may contact our EU representative Hengstler GmbH, Uhlandstr 49, 78554 Aldingen, Germany (Tel: +49-7424-890; Fax: +49-7424-89500).