# **SCAL-400**

# CALIBRATION AND CHARGING STATION



# INSTRUCTION MANUAL

# READ AND UNDERSTAND INSTRUCTIONS BEFORE USE

FOR USE IN AREAS KNOWN TO BE FREE OF COMBUSTIBLE GAS HAZARDS

FOR USE IN AREAS THAT ARE CLEAN AND DRY



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# **SCAL-400**

CALIBRATION AND CHARGING STATION FOR USE WITH SENSIT® P400 GAS MONITORS

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# **Specifications**

Power: 100 – 240 VAC input

Size: 24" X 7" X 3" (61cm X 17.8cm X 7.6cm)

Weight: 5.75 lbs. (2.6 kg)

Operational Temperature: 40 - 122°F (5 - 50°C)

Maximum inlet pressure: 20psi

# **Features**



SCAL-400

Power Cord (120 VAC)

Instruction Manual

SCAL-D Software

**USB Cable** 



The SCal-400 is a multi-unit charging and calibration station for Sensit P400 gas detection instruments. It can bump test and/or calibrate up to five P400 units consecutively while simultaneously recharging the battery packs. The SCal-400 also detects if a P400 requires calibration or a bump test when connected and automatically performs the required test. During connection any manually performed calibration and bump tests in the instrument memory log will automatically transfer from P400 to SCal-400. Data management for the SCal-400 requires either SCal-D or SCal-N software packages. All SCal-400 stations come standard with SCal-D software for desktop application.

The location to place any instrument is referred to as a "slot". For each slot there are charger and communication connections as well as LEDs to indicate the status. All testing functions require no user interaction.

The display is a touchscreen. Instrument and station information can be accessed by using your finger or the included stylus.

The SCal-400 scans each slot, updates the LED status, and refreshes the display screen for each slot every three seconds. During communication, the SCal-400 completes any log transfer before scanning another slot.

## **LED Status**

Each slot has two LEDs indicating the status for the docked instrument. The following table describes the various LED states:

| SCal-4 | SCal-400 Individual Slot LED Status:                   |  |                          |  |  |  |  |  |
|--------|--|--|--------------------------|--|--|--|--|--|
|        | Green LED Red LED Description                          |  |                          |  |  |  |  |  |
| 1      | OFF OFF Nothing on slot                                |  |                          |  |  |  |  |  |
| 2      | ON   | OFF Ready (all test done, fully charged/alkaline OK) |                          |  |  |  |  |  |
| 3      | OFF ON Fail calibration/bump test/alkaline low battery |  |                          |  |  |  |  |  |
| 4      | BLINK ON/OFF/BLINK Charging                            |  |                          |  |  |  |  |  |
| 5      | ON/BLINK   | BLINK  | Test in progress/pending |  |  |  |  |  |

## **Main Screen**

When the SCal-400 is powered on by connecting it to a 100-240 VAC supply, the display will show the Main Screen (refer to the sample shown below). This screen is divided in six cells. Five of the cells are for the five instrument slots and one cell is for showing SCal-400 information. The background color of a slot indicates the status of the P400 in the corresponding slot (See Table 1). Tapping the slot that has a unit docked will activate the Detail Status Screen. Tapping the blue section will take you to the Main Screen only if no unit test is pending or in progress.



| Table 1: Main Screen background colors and descriptions |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Slot Screen<br>Background color                         | Status Description   |  |  |  |  |  |
| GRAY  | Empty slot (Instrument is not docked)  |  |  |  |  |  |
| WHITE   | <ul> <li>One of the following Tasks In Progress</li> <li>Detected unit and acquiring more information</li> <li>Waking up unit</li> <li>DATA TRANSFER – Update P400 RTC, transfer<br/>BUMP/CAL Log from Instrument to SCal-400</li> <li>Calibration in progress</li> <li>Bump test in progress</li> <li>Waiting in queue</li> <li>Charging</li> </ul> |  |  |  |  |  |
| RED   | <ul> <li>One of the following failures occurred</li> <li>Calibration failed</li> <li>Bump test failed</li> <li>Alkaline low battery is detected</li> </ul>   |  |  |  |  |  |
| GREEN   | Unit is ready for use.   |  |  |  |  |  |
| BLUE  | Tapping this section will open the Main Menu Screen only if no<br>unit test is pending or in progress  |  |  |  |  |  |

## **Detail Status Screen**

The Detail Status Screen provides additional details about the P400 in the selected slot. This provides real time progress of data transfer, calibration and bump test. From here you can manually perform a calibration or bump test by tapping the appropriate icon.

Table 2 references the displayed example.



| Label Type Background<br>Color |                     | Background<br>Color | Status Description  |  |  |  |  |  |
|--------------------------------|---------------------|---------------------|---|--|--|--|--|--|
|                                |                     | WHITE               | WAKING UP/DATA TRANSFERRED/TEST PENDING/WAITING IN QUEUE/IN       |  |  |  |  |  |
| 4                              | Useden              |                     | PROGRESS  |  |  |  |  |  |
| 1.                             | Header              | RED                 | FAILED BUMP TEST OR CALIBRATION                                   |  |  |  |  |  |
|                                |                     | GREEN               | ALL TEST SUCCESSFULLY COMPLETED                                   |  |  |  |  |  |
|                                |                     | WHITE               | CHARGING  |  |  |  |  |  |
| 2.                             | Battery             | RED                 | ALKALINE: LOW BATTERY   |  |  |  |  |  |
|                                |                     | GREEN               | CHARGED/ALKALINE: OK  |  |  |  |  |  |
|                                |                     | GRAY                | PENDING   |  |  |  |  |  |
| 3.                             | Data                | WHITE               | UPDATING RTC/DOWNLOADING CALIBRATION LOG/DOWNLOADING BUMP         |  |  |  |  |  |
|                                | Transfer            |                     | TEST LOG  |  |  |  |  |  |
|                                |                     | GREEN               | COMPLETED DATA TRANSFER   |  |  |  |  |  |
|                                |                     | GRAY                | NOT REQUIRED  |  |  |  |  |  |
| 4.                             | Unit                | WHITE               | PENDING/PURGING/IN PROGRESS                                       |  |  |  |  |  |
|                                | Autozero            | RED                 | FAILED  |  |  |  |  |  |
|                                |                     | GREEN               | PASSED  |  |  |  |  |  |
| -                              | Sensor<br>Autozero  | GRAY                | PENDING   |  |  |  |  |  |
| 5.                             |                     | RED                 | FAILED  |  |  |  |  |  |
|                                |                     | GREEN               | PASSED  |  |  |  |  |  |
|                                |                     | GRAY                | NOT REQUIRED  |  |  |  |  |  |
| _                              |                     | WHITE               | PENDING/PURGING/IN PROGRESS – DISPLAYS ADC COUNTS OF SENSOR BEING |  |  |  |  |  |
| 6.                             | Unit                |                     | CALIBRATED  |  |  |  |  |  |
|                                | Calibration         | RED                 | FAILED  |  |  |  |  |  |
|                                |                     | GREEN               | PASSED  |  |  |  |  |  |
|                                |                     | GRAY                | PENDING   |  |  |  |  |  |
| _                              | <u> </u>            | WHITE               | IN PROGRESS   |  |  |  |  |  |
| 7.                             | Sensor              | YELLOW              | CALIBRATION GAS SUPPLY TEST FAILED                                |  |  |  |  |  |
|                                | Calibration         | RED                 | FAILED  |  |  |  |  |  |
|                                |                     | GREEN               | PASSED  |  |  |  |  |  |
|                                |                     | GRAY                | NOT REQUIRED  |  |  |  |  |  |
| 8.                             | Unit Bump           | WHITE               | PENDING/PURGING/IN PROGRESS                                       |  |  |  |  |  |
|                                | Test                | RED                 | FAILED  |  |  |  |  |  |
|                                |                     | GREEN               | PASSED  |  |  |  |  |  |
|                                |                     | GRAY                | PENDING   |  |  |  |  |  |
| _                              |                     | WHITE               | IN PROGRESS   |  |  |  |  |  |
| 9.                             | Sensor<br>Bump Test | YELLOW              | CALIBRATION GAS SUPPLY TEST FAILED                                |  |  |  |  |  |
|                                |                     | RED                 | FAILED  |  |  |  |  |  |
|                                |                     | GREEN               | PASSED  |  |  |  |  |  |

# Main Menu Screen

The Main Menu Screen provides an overview of the system (Serial #, Software Rev#, Date and Time, Valve Configuration). It also provides access to view calibration gas information, view logs, update settings through the Supervisor Menu, and a Test Menu.

- The Valve Setup Overview provides information about which gas inlets (valves) are configured for each calibration gas. Each lure inlet on the manifold is color coded with label around it.
- The Supervisor and Test Menu screens are password protected.



### **Calibration Gas Information Screen**

This screen is divided in eight cells. Each cell represents a single gas inlet (valve). The background colors and gas inlets are color coded and matched for easy identification. The colors on the manifold label correspond to the colors shown on this screen. It also provides the information about type of regulator required for the gas bottle and the expiration date of the calibration gas. A blank/empty cell indicates that particular gas inlet (valve) is not configured and will not be used. "**N/A**" in a cell indicates that the valve is not installed. Tapping on a configured cell (i.e. - not blank/empty) will take you the password screen. Upon providing the correct password, the calibration gas information will be displayed.



# **Log Review Screen**

This screen lets you review all the logs available in the SCal-400s local database. It will display the most recent log first, but other logs can be viewed by using the "PREV" and "NEXT" buttons. NOTE: you cannot see logs from other stations or SCal-N/D databases.

Table 3 references the displayed example.

| Sample image                  | e of the Log R | eview Sci      | reen:         |            |  |  |  |  |
|-------------------------------|----------------|----------------|---------------|------------|--|--|--|--|
| Serial No: XXXX               |                |                |               |            |  |  |  |  |
| Type: CAL                     |                |                |               |            |  |  |  |  |
| Date Time:                    | DD MMM Y       | YYY HH:        | mm:ss         |            |  |  |  |  |
| O2 E<br>ZERO C/<br>FAILED FAI |                | H2S<br>SKIPPED | HCN<br>PASSED | RESULT BAR |  |  |  |  |
| << PREV                       | XXXX OF        | xxxx           | NEXT >>       |            |  |  |  |  |
|                               | BACK           |                |               |            |  |  |  |  |

| Table 3: Log | Table 3: Log Review Screen background colors and descriptions |   |  |  |  |  |  |
|--------------|---|---|--|--|--|--|--|
| Туре         | Background  | Description   |  |  |  |  |  |
|              | Color   |   |  |  |  |  |  |
| Serial #     | al # NA Displays the serial number of the P400 unit           |   |  |  |  |  |  |
| Туре         | NA  | NA Displays the type of log: BUMP/CAL                                 |  |  |  |  |  |
|              | Result bar is div   | ided in 5 cells. Each cell represents sensor calibration/bump result. |  |  |  |  |  |
|              |   | FAILED: BUMP FAILED   |  |  |  |  |  |
|              | RED   | CAL FAILED: CALIBRATION FAILED  |  |  |  |  |  |
| Result Bar   |   | ZERO FAILED   |  |  |  |  |  |
|              | YELLOW  | CAL GAS FAILED: Calibration gas supply check failed                   |  |  |  |  |  |
|              | GRAY  | Sensor Test (calibration/bump) is skipped by user                     |  |  |  |  |  |
|              | GREEN   | PASSED  |  |  |  |  |  |

#### **Password Screen**

The Password Screen provides a supervisor level of protection to access the Supervisor and Test Menus and the menu to update the calibration gas information. The password is four numbers long. Tapping the "CLEAR" button will reset the boxes, allowing you to try again. After you enter four numbers, the password will automatically be checked. Upon providing the correct password, the next screen will be displayed. Entering an incorrect password will change the screen title to be displayed as "WRONG PASSWORD" in red. After three unsuccessful attempts, the password screen will close and you will return to the previous screen.

| Sample image of the Password Screen: |          |       |   |  |  |  |  |
|--------------------------------------|----------|-------|---|--|--|--|--|
|                                      | PASSWORD |       |   |  |  |  |  |
|                                      |          |       |   |  |  |  |  |
|                                      |          |       |   |  |  |  |  |
| 1                                    | 1 2 3    |       |   |  |  |  |  |
| 4                                    | 4 5 6    |       |   |  |  |  |  |
| 7                                    | 8        | 9     |   |  |  |  |  |
| BACK                                 | 0        | CLEAR |   |  |  |  |  |
|                                      |          |       | 1 |  |  |  |  |

# **Supervisor Menu Screen:**

The settings of the SCal-400 can be changed from within the Supervisor Menu. Please see Table 4 for a list of all the configurable items that can be modified. You can use the vertical scroll bar to view all available options. Scroll to and tap the button for the setting you would like to change. Another screen will appear that will allow you to view/adjust the current setting.

|      | SET CLOCK           | • |  |  |  |
|------|---------------------|---|--|--|--|
|      |                     |   |  |  |  |
|      | BUMP AFTER CAL      |   |  |  |  |
|      | BUMP ON DOCK        |   |  |  |  |
| BACK | VALVE CONFIGURATION | • |  |  |  |

| SELECT VALUE |                                       |           |  |
|--------------|---------------------------------------|-----------|--|
| LL = <       | <= UL                                 |           |  |
| 1            | 2                                     | 3         |  |
| 4            | 5                                     | 6         |  |
| 7            | 8                                     | 9         |  |
| CLEAR        | 0                                     | BACKSPACE |  |
| BACK         | ACCEPT                                |           |  |
|              |                                       |           |  |
| SELECT VALUE |                                       |           |  |
| 🖲 ENABL      | .E                                    | O DISABLE |  |
| CANCEL       |                                       | ACCEPT    |  |
|              | LL =<<br>1<br>4<br>7<br>CLEAR<br>BACK | LL =<     |  |

| Tab | e 4: Supervisor Menu Items |   |
|-----|----------------------------|---|
| 1   | SET TIME ZONE              | This allows you to set the time zone of the clock. Updating this setting will<br>restart the SCal-400 application. All available time zones will be listed. Select<br>the appropriate time zone and click "UPDATE". A message box will be<br>displayed to indicate system will restart. Click "OK" to continue. |
| 2   | SET CLOCK                  | This allows you to change the date and time of the clock.   |

| 3 | SET CHARGING OFFSET   | This option allows the factory to adjust the offset for recharging. It will<br>display the current ADC reading for each slot and also the currently saved<br>offset. Click "UPDATE" to save a new offset reading. Before updating this<br>setting, please remove all P400 units from all slots and wait few seconds for<br>the readings to stabilize.<br>Please contact factory before changing this setting.<br>PLEASE REMOVE P400 FROM ALL SLOTS<br>SLOT#1 XXXX mA OFFSET SAVED: XXXX mA<br>SLOT#2 XXXX mA OFFSET SAVED: XXXX mA<br>SLOT#3 XXXX mA OFFSET SAVED: XXXX mA<br>SLOT#4 XXXX mA OFFSET SAVED: XXXX mA<br>SLOT#4 XXXX mA OFFSET SAVED: XXXX mA<br>BACK UPDATE  |  |  |  |  |  |
|---|-----------------------|--|--|--|--|--|--|
| 4 | SCAL/LAN SETTINGS     | This will allow you to set the necessary network information to enable this device to communicate with SCal-N.          LAN SETTINGS         IP ADDRESS:         PORT:         SUBNET MASK:         DEFAULT GATEWAY:         BACK       CLEAR  |  |  |  |  |  |
| 5 | BACKUP/RESTORE DB     | <ul> <li>a. <u>AUTO BACKUP:</u><br/>This option allows a supervisor to setup automatic backups of the database to an internal memory card. Enabling this option will require a memory card to be present. A copy of the database will be saved to the memory card every day. The automatically saved backup files are named <i>AUTO_DDMMYYYY.sdf</i>.</li> <li>b. <u>BACKUP DATABASE:</u><br/>This option will create a manual backup on the memory card. These backup databases are named <i>MANUAL_DDMMMYYY.sdf</i>.</li> <li>c. <u>RESTORE DATABASE:</u><br/>This will allow the user to restore a database back from the memory card. It will display a list of all available backup databases (both manual and automatic) that exist on the memory card. You can choose one database and click "SELECT" to restore it.</li> </ul> |  |  |  |  |  |
|   | AUTO BACI<br>O ENABLE | CUP         PLEASE SELECT DATABASE FILE           DISABLE         DISABLE  |  |  |  |  |  |
|   | BACKUP DATA           | \Storage Card\MANUAL_8Jan2014.sdf         \Storage Card\MANUAL_9Jan2014.sdf         \Storage Card\MANUAL_10Jan2014.sdf         \Storage Card\MANUAL_11Jan2014.sdf         \Storage Card\MANUAL_11Jan2014.sdf   |  |  |  |  |  |
|   | RESTORE DAT           | ABASE Storage Card\MANUAL_12Jan2014.sdf<br>\Storage Card\MANUAL_13Jan2014.sdf<br>\Storage Card\AUTO_14Jan2014.sdf  |  |  |  |  |  |
|   | ВАСК                  | UPDATE CANCEL SELECT   |  |  |  |  |  |
| 6 | BUMP AFTER CAL        | Turning this option on will make the unit to go through the bump test after calibration is performed successfully.   |  |  |  |  |  |
| 7 | BUMP ON DOCK          | Turning this option on will make the unit to go through the bump test every time you dock the unit.  |  |  |  |  |  |
| 8 | VALVE CONFIGURATION   | This allows you to select type of calibration gas connected to the selected gas  |  |  |  |  |  |

#### Valve configuration screen:

The middle section of this screen is divided in eight cells. Each cell represents a single gas inlet (valve). The background colors and gas inlets are color coded and matched for easy identification. The colors on the manifold label correspond to the colors shown on this screen. It also provides the information about the type of regulator required for the gas bottle and the expiration date of the calibration gas. A blank/empty cell indicates that particular gas inlet is not configured and will not be used. **"N/A"** in a cell indicates that the valve is not installed. Tapping on any of the cells will take you to Valve Configuration Modification Screen.

#### Valve Configuration Modification Screen:

This screen provides you with an option to configure the calibration gas for the selected gas inlet (valve). You can also choose which regulator type to use. If a demand regulator is used, the internal pump will turn on while using that particular gas inlet (valve). If you want to disable the selected gas inlet (valve), then select "NONE" as the gas type. All of the calibration gases that are configured for the other inlets (valves) will be disabled in this screen. If you want to switch a gas to a different inlet (valve), you need to disable that particular calibration gas from the inlet (valve) before enabling it on the desired inlet (valve).

|    |   | VALVE CONFIGURATION SCREEN   |                               |                    |                 | GUR      | ATION            | MODIF            | ICATI  | ON S  | CREEN   | ]       |
|----|---|--|-------------------------------|--------------------|-----------------|----------|------------------|------------------|--------|-------|---------|---------|
|    |   |  | _<br>1 ا                      |                    | _               | _        | _                | _                | _      |       |         | ]       |
|    | VALVE CONFIGUR  |  |                               |                    |                 |          | Gray V           |                  |        |       |         |         |
|    |   | QUAD   |                               | REGULA             |                 |          |                  | RESSU            |        |       | 1AND    |         |
|    |   | REGULATOR<br>DEMAND  | TAP CELL                      | 0                  | AIR             | ()<br>() | QUAD             | 0                | 02     | 0     | СН4     |         |
|    |   | AIR  |                               | 0                  | PRO             | 0        | PEN              | 0                | со     | 0     | H2S     |         |
|    |   | REGULATOR  |                               | 0 1                | HCN             | 0        | SO2              | 0                | CI2    | 0     | NO2     |         |
|    |   | DEMAND   |                               | 0                  | РНЗ             | 0        | ЕТО              | 0                | N2     | 0     | NONE    |         |
|    | BAC   | K  |                               |                    | BAC             | K        |                  |                  | UPD    | ATE   |         |         |
| 9  | RESET VALVE CONFIG  | Reset the valve<br>GREEN – AIR – D<br>GRAY – QUAD –  | EMAND REG                     | ULATC              | DR              | ory      | defau            | ılt as           | per f  | ollo  | wing:   |         |
| 10 | ERASE LOG   | This will erase the  | ne entire log                 | saved i            | in the          | e loo    | al da            | tabas            | e.     |       |         |         |
| 11 | PURGE TIME BEFORE   | Amount of time starting any calil  |                               |                    |                 | ll pu    | irge tł          | ne lin           | e wit  | h aiı | r befoi | re      |
| 12 | PURGE TIME AFTER  | Amount of time completes a cali  |                               |                    |                 | ll pu    | irge tł          | ne lin           | e wit  | h ai  | r after | it      |
| 13 | SPECIALITY GAS PURGE  | Amount of time (in seconds) the unit will purge the line with air before   |                               |                    |                 |          |                  |                  |        |       |         |         |
| 14 | CAL GAS CHECK TIME  | CAL GAS CHECK TIME Amount of time (in seconds) the SCal-400 will wait after opening the calibration gas valve and before checking for an empty cylinder.<br>Please contact factory before changing this setting. |                               |                    |                 |          |                  |                  |        |       |         |         |
| 15 | PRESSURE THRESHOLD Minimum difference of the pressure sensor response (in ADC counts)<br>valid when the valve is configured to use a pressure regulator.<br>Please contact factory before changing this setting.  |  |                               |                    |                 |          |                  |                  |        |       |         |         |
| 16 | VACUUM THRESHOLD       Maximum difference of the pressure sensor response (in ADC counts) required to verify the calibration gas bottle is not empty. This setting is or valid when the valve is configured to use a demand regulator.         Please contact factory before changing this setting. |  |                               |                    |                 |          |                  |                  |        |       |         |         |
| 17 | SET PASSWORD  | This option will a the default pass  |                               | visor t            | o cho           | oose     | e their          | own              | pass   | wor   | d othe  | er than |
| 18 | FLIP SCREEN   | This will flip the   | screen 180°                   |                    |                 |          |                  |                  |        |       |         |         |
| 19 | RESET SETTINGS  | This option will serial number).   | reset all setti               | ngs ba             | ick to          | the      | facto            | ory de           | fault  | s (e: | kcept   | or the  |
| 20 | CLOSE APPLICATION   | This will close th   |                               |                    |                 |          |                  |                  |        |       |         |         |
| 21 | SET SERIAL NUMBER   | This will let you protected and ca   |                               |                    |                 |          |                  |                  | his is | s pa  | sswor   | k       |
| 22 | DO NOT SAVE   | Enabling this op<br>database. This o<br>SCal-400 is work<br>protected and s  | ption is spec<br>ing properly | ially de<br>withoເ | esign<br>ut cre | ed f     | or fac<br>ng any | tory ı<br>/ logs | use to | o ve  | rify th | e       |

# **Operation – Setup:**

- 1. Locate the SCal-400 in an area that is clean, dry, and in an area known to be free of combustible gases.
- 2. Lay the SCal-400 flat. Positioning the housing at an angle interferes with proper gas flow to the instruments.
- 3. Attach the power cord to the instrument (do not plug in to the power source yet).
- 4. Attach the proper gas bottles to the inlets on the left side. The gray location is preset for quad-gas mixtures of LEL, CO, H2S and O2.
- 5. Attach a hose to the green inlet to bring fresh air for zeroing. Keep the other end of the hose in clean air and away from the station.
- Attach the cable (Ethernet or USB-to-RS232) for serial data connection (not required for operation). For operation of SCal-D or SCal-N data management software, please review their respective instruction manuals.
- 7. Turn on the gas if a pressure regulator is used. Demand regulators do not require this action.

# **Operation – System Activation:**

- 1. Plug the SCal-400 into a power source.
- 2. The screen will illuminate with Sensit logo.
- 3. The internal fan will start to spin. This is to cool the power supply components.
- 4. The SCal application will automatically initiate and then be ready to use.

# **Operation – P400 Testing:**

- 1. Remove the pump assembly if attached.
- 2. Be sure the instrument filter is clean and dry.
- 3. Lay the instrument face down into any slot.
- 4. If the instrument is off, it will turn on automatically.
- 5. The instrument will be bump tested and/or calibrated as determined by the instrument setup.
- 6. The instrument will recharge if needed. Alkaline powered instruments will not recharge. The station will indicate if the battery is low in an alkaline powered instrument.
- 7. Battery charging status indicators will function.
- 8. Full recharge requires approximately 5.5 hours.
- The display will update the status at the end of each process. Red backgrounds indicate failures.
   Tap the corresponding screen location for more information.





# Warranty

Your Sensit SCal-400 is warranted to be free from defects in materials and workmanship for a period of two years after purchase. If within the warranty period the instrument should become inoperative from such defects the instrument will be repaired or replaced at our option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Proof of purchase may be required before warranty is rendered. Units out of warranty will be repaired for a service charge. Internal repair or maintenance must be performed by a Sensit Technologies authorized technician. Violation will void the warranty. Units must be returned postpaid, insured and to the attention of the service department for warranty or repair.

This warranty gives you specific legal rights and you may have other rights which vary from state to state.

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#### MADE IN THE USA