

MODEL 5000
S E N T R Y
GAS MONITORING SYSTEM

Version 6

Configuration



APPLICABILITY & EFFECTIVITY

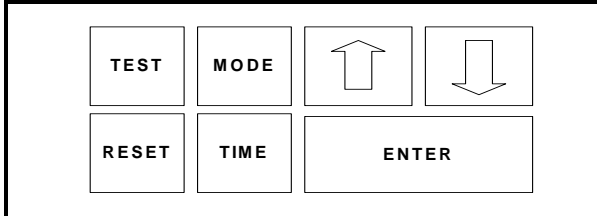
Effective for all Sentry systems manufactured after September 1, 1995.

Instruction Manual Part Number T12001-A1

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4. CONFIGURATION PROCEDURE

4.1 INTRODUCTION



Sentry is operated via the seven keys on the front panel. Operation includes initial set-up, periodic calibration, recall of history, and changes to configuration.

Certain procedure and message conventions are used to provide consistency. A knowledge of these conventions will aid in understanding of the set-up and operation steps.

The **UP** and **DOWN** arrow keys change information displayed on the alpha-numeric (lower) display. Changes made by using the arrows are not "implemented" until the **ENTER** key is pressed.

The **ENTER** key is used to access the selected activity or to enter selected data or status information into the controller memory.

When any of the four activity keys **TEST**, **RESET**, **TIME**, **MODE** are depressed the **SENSOR/LEVEL** display is cleared and the activity information is displayed on the alpha-numeric display.

The messages **PRESS ENTER TO** or **ENTER TO** indicate that the selected activity can be accessed via the **ENTER** key.

The message **USE ARROWS/ENTER** indicates that module numbers or other variables can be changed with the arrows prior to entering the activity with the **ENTER** key.

The message **PRESENT CONFIG** is used in system responses during **CHECK** activities. Variables displayed as **PRESENT CONFIG** can be changed via the **CHANGE** mode.

Positive response messages such as **SYSTEM RESET COMPLETE** are displayed for 1.5 seconds to confirm that the activity has been completed.

Activity names are displayed bracketed by "<" and ">" signs.

Normal operation is the condition where the change and calibrate light is off and the display cycles continuously between all active module numbers.

If the **ENTER** key is pressed once during normal operation the display locks onto the current module number and can be advanced using the **UP** and **DOWN** arrow keys. When the display is locked onto one module number the gas type and units display is shown in round parenthesis "()".

If any module is force calibrated, the gas type and units display for that module number is shown in square parenthesis "[]".

The message **USE ARROWS/ENTER** indicates that the arrows can be used to change the module number or other data on the second line and the **ENTER** can be used to access the selected activity or module number.

Successive presses of any one of the four activity keys will cycle through each option available and will return the system to the normal operating mode..

When any activity key cycle has been started and not completed the remaining activity keys are disabled except that the **RESET** key can be used to return the system to normal **OPERATE** mode.

When the system is in the **CHANGE** mode the **CALIBRATE OR CHANGE** light is ON.

4.2 START-UP PREPARATION

The worksheet, Figure 4-1, will aid in understanding the type of information required to set-up the system, it should be completed prior to system power-up.

MODULE ADDRESS	LOCATION	SENTRY CHANNEL	GAS TYPE	LOW ALARM	HIGH ALARM	LATCH Y/N	SCALING FACTORS	SENSOR SERIAL #
1								
2								
3								
4								
5								
6								
7								
8								

**Figure 4-1
System Configuration Worksheet**

NOTES

- 1 Module Address Dip switch setting for each sensor module
- 2 Location Describe the physical location of the module
- 3 Sentry Channel Log the channel number to which the module is wired
- 4 Gas Log the name of the gas which is to be detected
- 5 Low Alarm Enter the value for the low alarm
Default values are: H₂S: 10 PPM, Combustible 20% LEL, Oxygen 19.5%, Toxic 10 PPM
- 6 High Alarm Enter the value for the high alarm
Default values are: H₂S: 20 PPM, Combustible 60% LEL, Oxygen 16.5%, Toxic 20 PPM
Note: Combustible Alarms cannot be set greater than 60% LEL.
- 7. Latch L?/H? Determine if any module will require a latching alarm and write "Y" in the appropriate position (e.g.: N/Y indicates a non-latching low alarm and latching high alarm, Y/Y indicates both relays will be latching). The system "defaults are N/Y.
Note: Combustible High Alarms are Latching Only
- 8 Factors For H₂S (5100-01): Record the three (three digit) numbers which are written on the sensor connector on each sensor.
For Combustibles: If the gas to be detected and the gas to be used for calibration are the same write "100".
If the calibration gas is methane and a different gas is to be detected select the correct factor from XXXXX.
Note: Combustible Gas Scaling Factors are not FMRC approved.
No factors are required for Oxygen or Toxic sensors.
- 9 Sensor Serial Number Record the serial number from the label on the connector of each sensor

4.3 CONFIGURATION INSTRUCTIONS

Sentry controllers which are components of complete systems are factory configured and generally do not require changes prior to being placed in service.

Sentry controllers which have not been factory configured can be placed into operation with default values for all configuration parameters by using the diagnostic code "0021" described in Section 8.3 of this manual.

The following are step-by-step configuration instructions which can be used to customize the operation of the controller for specific applications. After initial configuration the controller can be placed in service or used for training as described in the this section.

If an error is made, or suspected, press the **RESET** key until the display reads **<RESET SYSTEM>** and then press the **ENTER** key, the system will reset and the set-up routine can be re-started.

STEP	KEY	LOWER DISPLAY
1	RESET	<RESET ALARMS>
2	RESET	<RESET SYSTEM>
3	ENTER	SYSTEM RESET COMPLETE
		<UNCALIBRATED>
		Displays continue cycling through each module number. Power light changes from flashing to solid.
4	MODE	<CALIB/CHANGE>
5	ENTER	CHANGE MODE SELECTED Note that if a user entry code has been initiated it must be input here. Change/Calibrate light turns on.
		READ INSTRUCTION MANUAL FIRST
		PRESS ENTER TO CALIB ALL [GGGG] Where GGGG is the gas type.
6	MODE	<CHANGE CALIB>
7	MODE	<CHANGE MODULE>
8	ENTER	USE ARROWS/ENTER
		MODULE # = 1
9	ENTER	GAS TYPE : GGGG
10	ENTER	# 1 GGGG IS: ON
11	ENTER	LO ALM: NONLATCH Use arrows to change.
12	ENTER	HI ALM: LATCH Use arrows to change.
13	ENTER	HIGH ALARM = XX Use arrows to change each digit.
14	ENTER	LOW ALARM = XX Use arrows to change each digit.

STEP	KEY	LOWER DISPLAY
15	ENTER	FACTOR = 100 Linearizing factors are required for sensor modules 5100-01 (H ₂ S) . Scaling factors can be used for sensor module 5100-02 (Combustibles)
16	ENTER	MODULE # = 2 Repeat steps 9 through 15 for each module.
17	MODE	<SET USER CODE>
18	MODE	<CHANGE PRINTER> or <CHANGE MODBUS> Displays only if printer or MODBUS option is installed.
19	MODE	CHANGE GAS TAG
20	MODE	CHANGE MOD TAG
21	MODE	CHANGE ENG UNITS
22	MODE	<OPERATE MODE>
23	ENTER	OPERATE MODE SELECTED
24	TIME	<CHECK HISTORY>
25	TIME	<HISTORY REPORT> For printer option only.
26	TIME	<SYSTEM REPORT> For printer option only.
27	TIME	<STATUS REPORT> For printer option only.
28	TIME	<SET DATE & TIME>
29	ENTER	D&T MM/DD HH:MM Set each digit using the arrows, then ENTER to advance to the next digit.
28	RESET	H2S PPM Display will scan through all active gas sensor modules.

4.4 SENTRY TRAINING

After the controller is configured use this section in conjunction with the Sentry MENU, Table 4-2, and Sentry FLOWCHARTS, Figure 4-3 through Figure 4-7 to develop an understanding of keyboard operation.

To begin, press the **RESET** key until the lower display reads **PRESS ENTER TO RESET SYSTEM** then press **ENTER**. The system is now in "normal operate mode". The Sensor/Level display will cycle through each of the module numbers (**CONTINUOUS SCAN**). If any module is indicated as **MODULE OFF** use steps 9 through 15 of Section 4.3 to turn that module **ON**.

In **NORMAL OPERATE** mode Sentry scans all modules in sequence and displays their current readings. For any modules which are not correctly initiated and calibrated the status will be indicated. This scanning sequence is by module number by type. (Type 1 = H₂S solid state, Type 2 = Combustible, Type 3 = Oxygen and Type 4 = all others)

For H₂S, Combustible and Toxic modules the upper (Sensor/Level) display indicates the module number and the concentration. The lower display shows the gas tag and the engineering unit.

For Oxygen the upper display indicates the module number and its deficiency status. The lower display will read the oxygen concentration (e.g.: 20.9%).

Table 4-1 indicates display conditions for each module type.

Type	Gas/Status	Upper	Lower
1	H ₂ S Normal	00	H2S PPM%
2	Combustible Normal	00	COMB* %LEL
3	Oxygen Normal	00	OXY 20.9%
3	Oxygen Below Normal	LO	OXY <20.7%
3	Oxygen Above Normal	HI	OXY >21.1%
4	Toxic Normal	00	TOXIC* PPM
* "COMB" and "TOXIC" gas tags can be modified to any six character tag using CHANGE GAS TAGS.			
Table 4-1 Display Conditions			

CONTINUOUS SCAN is Sentry's default display mode. To "lock" the display onto one module wait till that module is displayed and press **ENTER**. While the "lock" is in effect the arrows can be used to change to other module numbers. The lock is indicated by "()" around the top line of the lower display. To return to **CONTINUOUS SCAN** press **ENTER**.

Other user selectable display modes are described later in this manual.

Press the **TEST** button, read the display, then press the **TEST** button again. Repeat until the system returns to the continuous scan display. The two test conditions which are displayed are: <TEST SYSTEM> and <TEST ALARMS>. Neither of these tests were implemented because the **ENTER** key was not pressed.

To implement the tests, press the **TEST** key once; display will read <TEST SYSTEM>. Press the **ENTER** key. Sentry will then step through the following series of displays:

Model number, software level, and traceability descriptors.

**MODEL 5000 VERS 6.3
8 CH 951234**

Low Alarm Test with relays inactive.

**RELAYS PASSIVE
TEST LOW ALARMS**

High Alarm Test with relays inactive.

**RELAYS PASSIVE
TEST HIGH ALARMS**

Trouble Alarm Test with relays inactive.

**RELAYS PASSIVE
TEST TROUBLE
ALARM**

Full Display Test with all display segments and LED's on.

**XXXXXXXXXX XXX
XXXXXXXXXX XXX**

Warm-up Time-out.

**SYSTEM WARM-UP
PLEASE WAIT 5:00**

Return to normal scan.

**COMB %LEL
MODULE TAG**

Press the **TEST** key twice and the display will read **TEST ALARMS**. Press the **ENTER** key and Sentry will execute **LOW, HIGH & TROUBLE** alarms and then return to the operate mode. During this test the respective alarm relays will throw. The user code described later in this manual can be used to protect against unauthorized activation of the alarm relays.

Read the Sentry menu, Table 4-2 to find the **TEST** key. It should now be easy to understand that each step in the menu can be implemented by using the enter key or bypassed by continuing to press the activity key. This process is further described in the flowcharts. Figure 4-3 through Figure 4-7.

4.5 SENTRY MENU

Table 4-2 describes the primary activities that can be accessed via the Sentry keyboard. Each activity which involves sub-menu selection is identified by an asterisk. Menu selections which refer to printer are standard in eight channel systems, optional in two and four channel systems. The MODBUS option replaces Printer software.

Menu selections are further described in the following paragraphs. Press the respective key to select the sub-routines and press the **ENTER** key to access them. Follow the sequence in the flow charts.

MENU KEYS			
TEST	RESET	TIME	MODE
SYSTEM	ALARMS	HISTORY	CALIBRATE/ CHANGE
ALARMS	SYSTEM	PRINT HISTORY	SELECT SCAN
	HISTORY	PRINT SYSTEM REPORT	CHECK CALIB
		PRINT STATUS REPORT	CHECK MODULE
		SET DATE & TIME	CHECK PRINTER

Table 4-2
Sentry Primary Menu Selection

4.5.1 TEST KEY

The **TEST KEY** activities are described in the training exercise in Section 4.4.

4.5.2 TIME KEY

4.5.2.1 CHECK HISTORY

**PRESS ENTER TO
CHECK HISTORY**

The first display in the **CHECK HISTORY** menu shows the system clock date and time **D/T** on the first line. The second line shows the date and time at which the history information was last cleared **HR**.

The second display indicates the last time the power was interrupted. **PD** is the Power Down time and **PU** is the Power Up time. After any interruption of power to the controller the **POWER** light will flash until the system is reset.

The third display begins the sequence in which the history for any module can be recalled. The display will indicate **MODULE NUMBER 1**. Successive presses of the **ENTER** key will result in display of:

- Date and time of the last low alarm **LA** and high alarm **HA**
- Highest concentration **HC** with date and time

- Lowest concentration **LC** with date and time
- Last Calibration with date and time.
- Last logged error with date and time (if applicable).

At the end of the sequence the display will indicate the next module number and will continue to automatically increment as the data is recalled. If the data from a particular module is not required press the **UP** arrow to manually increment the number. As this recall sequence is a continuous "loop", press the **RESET** key at any time to return to the **OPERATE MODE**.

The history information may be collected on a continuous basis without clearing the data because only the last occurrence of each level will be retained. History data can be cleared by using the **RESET HISTORY** menu selection. Error messages are cleared by using the **RESET SYSTEM** menu selection.

4.5.2.2 PRINT HISTORY

**PRESS ENTER TO
PRINT HISTORY**

When the printer option is installed in Sentry this menu choice can be used to print all the module history.

4.5.2.3 PRINT SYSTEM

**PRESS ENTER TO
PRINT SYSTEM**

When the printer option is installed in Sentry this menu choice can be used to print a complete system configuration report.

4.5.2.4 PRINT STATUS

**PRESS ENTER TO
PRINT STATUS**

When the printer option is installed in Sentry this menu choice can be used to print a status report which indicates the present status and concentration for each module.

4.5.2.5 SET DATE/TIME

**PRESS ENTER TO
SET DATE & TIME**

Set the Sentry clock in the same manner as any digital clock is set. The format is **MM/DD HH:MM**, with the hours set in military time (24 hours). If a user code has been set-up it will be required prior to changing the clock. The cursor is initially under the month **MM**, set the correct month with the arrow and press **ENTER** to advance to the day **DD**. Repeat the process to set day, hour and minute. When the time is correct, press **RESET** to exit.

4.5.3 RESET KEY

4.5.3.1 RESET ALARMS

**PRESS ENTER TO
RESET ALARMS**

The **RESET ALARMS** activity will reset any latched alarm relay when the condition which caused the alarm has been corrected. If **RESET ALARMS** is selected before the correction has been made, the respective LED and relay will remain in the alarm condition.

4.5.3.2 RESET SYSTEM

**PRESS ENTER TO
RESET SYSTEM**

The **RESET SYSTEM** activity will reset all trouble conditions. If the trouble still exists the condition will re-display immediately. **RESET SYSTEM** can be used at any time to return the system to normal operation and clear all error messages.

4.5.3.3 RESET HISTORY

**PRESS ENTER TO
RESET HISTORY**

The **RESET HISTORY** activity clears all module history information which is normally accessed via the **TIME** key. The highest concentration is set to **00** and the lowest concentration is set to **HI**. The history reset date/time is set to the current system date/time. Sentry will immediately begin collecting new history information. When a user code has been installed the code will be required before the history can be reset.

4.5.3.4 OTHER USE OF RESET KEY

During **CHANGE** activity if the **RESET** key is pressed once the display will return to its normal scan operation but the **CHANGE/CALIBRATE** light will remain on. The **MODE** key can then be used to return to configuration activities without re-entering a user code. This action is helpful if module scan information is required during a configuration step.

4.5.3.5 EXTERNAL RESET KEY

The external **RESET** key on NEMA units implements **RESET ALARMS** and eliminates the need to open the enclosure for this purpose.

4.5.4 MODE KEY - CALIB/CHANGE

The first menu choice under the **MODE** key is **CALIB/CHANGE** when the **ENTER** key is pressed the "Calibrate or Change" light will turn on and the display will indicate **ENTER TO CALIB (GAS TYPE) (SPAN VALUE)**. After initial system set-up the **CALIBRATE OR CHANGE** activity should be protected via the user access code described in Section 7.3.4. When the user code has been installed only authorized operators may access this activity.

4.5.4.1 CALIBRATE

**ENTER TO CALIB
COMB 50% LEL**

The calibration activity is described in detail in the next chapter.

4.5.4.2 CHANGE CALIB

**PRESS ENTER TO
CHANGE CALIB**

The change calibration activity is described in detail in the next chapter.

4.5.4.3 CHANGE MODULE

**PRESS ENTER TO
CHANGE MODULE**

Each module in the installation must be initialized via the change module activity. The **CHANGE MODULE** activity is detailed in step by step form in Section 4.3 steps 6 through 18. The **CHANGE MODULE** activity should also be used after any sensor or module has been replaced to insure that the correct alarm limits and factors have been established.

4.6 SET USER CODE

**PRESS ENTER TO
SET USER CODE**

To avoid unauthorized access to the configuration activity the **USER CODE** should be set as soon as the Sentry has been put on line. User codes are described in Section 8.3. Special diagnostic routines, also accessible via the user code, are describe in the same section.

4.6.1.1 CHANGE PRINTER / MODBUS

**PRESS ENTER TO
CHANGE PRINTER
CHANGE MODBUS**

The **CHANGE PRINTER** or **CHANGE MODBUS** sub menu will appear if printer or MODBUS software is installed on the Sentry. Printer and MODBUS software is described in Section 8.5.

4.6.1.2 CHANGE GAS TAG

**PRESS ENTER TO
CHANGE GAS TAG**

The system default **GAS TAG** list contains eight common toxic gas names. (CO, H₂S, CL₂, SO₂, NO₂, HCL, H₂, NH₃). The gas tag names, and their corresponding engineering units can be changed. At the menu prompt press **ENTER** and the first gas tag will appear. Press **ENTER** to begin edit, or press **ARROW** to select a different gas tag.

Edit the tag by pressing the **ARROW** unit the correct character is selected, then **ENTER** to advance to the next character. The gas tag allows six characters, the engineering units allow four characters.

4.6.1.3 CHANGE MODULE TAG

**PRESS ENTER TO:
CHANGE MOD
TAG**

The system default **MODULE TAGS** are blank for all modules unless changes have been ordered through the enhancement package. Module tags can be changed or edited.. At the menu prompt press **ENTER** and the first module number will display. Press **ENTER** to begin edit, or press **ARROW** to select a different module number.

Edit the tag by pressing the **ARROW** unit the correct character is selected, then **ENTER** to advance to the next character. The module tag allows sixteen characters,. It is recommended that shorter tags be centered by leaving leading blank.

4.6.1.4 OPERATE MODE

**PRESS ENTER TO:
OPERATE MODE**

When the **OPERATE MODE** is selected by pressing **ENTER** the Change/Calibrate light turns off and Sentry returns to the pre-selected scanning mode.

4.6.2 MODE KEY - OTHER

If the first **MODE** key activity **CALIB/CHANGE** is not required the following menu selections can be accessed by successive presses of the **MODE** key:

4.6.2.1 SELECT SCAN

**PRESS ENTER TO
SELECT SCAN**

Select the controller scan mode during normal operation. This selection only affects the display and does not change the alarm or relay activity. The scan mode can be selected by successive presses of the **ARROW** key. and implemented by implemented by pressing the **ENTER** key.

1. **HIGHEST MODULE:** Sentry will find the highest reading module and will display only that module until another module exceeds the first level. Under certain conditions the display will cycle from one module to another in this mode, those conditions are:
 - More than one module at the same level.
 - More than one module type in use (when two types are in use the highest of each type will display alternately.
 - All modules in alarm condition will display.
 - Any module which is uncalibrated, off, or in trouble.
2. **CONTINUOUS:** The display continuously cycles through all modules. When two types of module are in use all "Type 1" (H₂S) will be displayed, followed by all "Type 2" (CH₄) etc..
3. **SAFE SCAN:** When all modules are below their respective alarm level Sentry will display a "- -" on the upper display and **CONDITION SAFE** on the lower display. When any module(s) exceeds it's alarm level that module's information will display. Modules which are uncalibrated, off or in trouble will also display.

4.6.2.2 CHECK CALIB

**PRESS ENTER TO:
CHECK CALIB**

The present calibration parameters can be check by successive presses of the ENTER key. These include the gas type, full scale, concentration of calibration gas, the number of days between calibrations and the status of global calibrate.

4.6.2.3 CHECK MODULE

**PRESS ENTER TO:
CHECK MODULE**

Any module number can be selected and configuration information for that module recalled. Select the module number using ARROWS, then step through the configuration information using the ENTER key.

NOTE
MEASUREMENT OVERRANGE - When Combustible concentration exceeds the 99% LEL range of the instrument, the controller displays "HI".

4.6.2.4 CHECK PRINTER

**PRESS ENTER T O:
CHECK PRINTER**

Press ENTER to review printer configuration.

SENTRY KEY BOARD																																																																																																																																					
Ts = TEST R = RESET M = MODE T = TIME ^ = ARROWS E = ENTER																																																																																																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">RESET KEY</th> </tr> <tr> <td>Reset Alarms</td> <td>R E</td> </tr> <tr> <td>Reset System</td> <td>R R E</td> </tr> <tr> <td>Reset History</td> <td>R R R E</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">TIME KEY</th> </tr> <tr> <td>Check History</td> <td>T E</td> </tr> <tr> <td>Printer History</td> <td>T T E</td> </tr> <tr> <td>Print System</td> <td>T T T E</td> </tr> <tr> <td>Print Status</td> <td>T T T T E</td> </tr> <tr> <td>Set Date & Time</td> <td>T T T T T E</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">TEST KEY</th> </tr> <tr> <td>Test System</td> <td>Ts E</td> </tr> <tr> <td>Test Alarms</td> <td>Ts Ts E</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">MODE KEY - PASSIVE</th> </tr> <tr> <td>Change/Calib</td> <td>M E</td> </tr> <tr> <td>Select Scan</td> <td>M M E</td> </tr> <tr> <td>Check Calib</td> <td>M M M E</td> </tr> <tr> <td>Check Module</td> <td>M M M M E</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">MODE KEY - ACTIVE</th> </tr> <tr> <td>Change/Calib</td> <td>M E</td> </tr> <tr> <td>Calibrate</td> <td><input type="checkbox"/> E</td> </tr> <tr> <td>Change Calibrate</td> <td><input type="checkbox"/> M E</td> </tr> <tr> <td>Change Module</td> <td><input type="checkbox"/> M M E</td> </tr> <tr> <td>Set User Code</td> <td><input type="checkbox"/> M M M E</td> </tr> <tr> <td>Change Printer</td> <td><input type="checkbox"/> M M M M E</td> </tr> <tr> <td>Change Gas Tag</td> <td>M M M M M E</td> </tr> <tr> <td>Change Module Tag</td> <td>M M M M M M E</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;"><input type="checkbox"/> CHANGE CALIB</th> </tr> <tr> <td>Gas Type</td> <td>^^ E</td> </tr> <tr> <td>Full Scale</td> <td>^^ E ^^ E ^^ E</td> </tr> <tr> <td>Calib Concentration</td> <td>^^ E ^^ E ^^ E</td> </tr> <tr> <td>Calib Frequency</td> <td>^^ E</td> </tr> <tr> <td>Global Calib</td> <td>^ E</td> </tr> </table>	RESET KEY		Reset Alarms	R E	Reset System	R R E	Reset History	R R R E	TIME KEY		Check History	T E	Printer History	T T E	Print System	T T T E	Print Status	T T T T E	Set Date & Time	T T T T T E	TEST KEY		Test System	Ts E	Test Alarms	Ts Ts E	MODE KEY - PASSIVE		Change/Calib	M E	Select Scan	M M E	Check Calib	M M M E	Check Module	M M M M E	MODE KEY - ACTIVE		Change/Calib	M E	Calibrate	<input type="checkbox"/> E	Change Calibrate	<input type="checkbox"/> M E	Change Module	<input type="checkbox"/> M M E	Set User Code	<input type="checkbox"/> M M M E	Change Printer	<input type="checkbox"/> M M M M E	Change Gas Tag	M M M M M E	Change Module Tag	M M M M M M E	<input type="checkbox"/> CHANGE CALIB		Gas Type	^^ E	Full Scale	^^ E ^^ E ^^ E	Calib Concentration	^^ E ^^ E ^^ E	Calib Frequency	^^ E	Global Calib	^ E	<table border="1" style="width: 100%; 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Figure 4-2
Sentry Keyboard - Quick Help

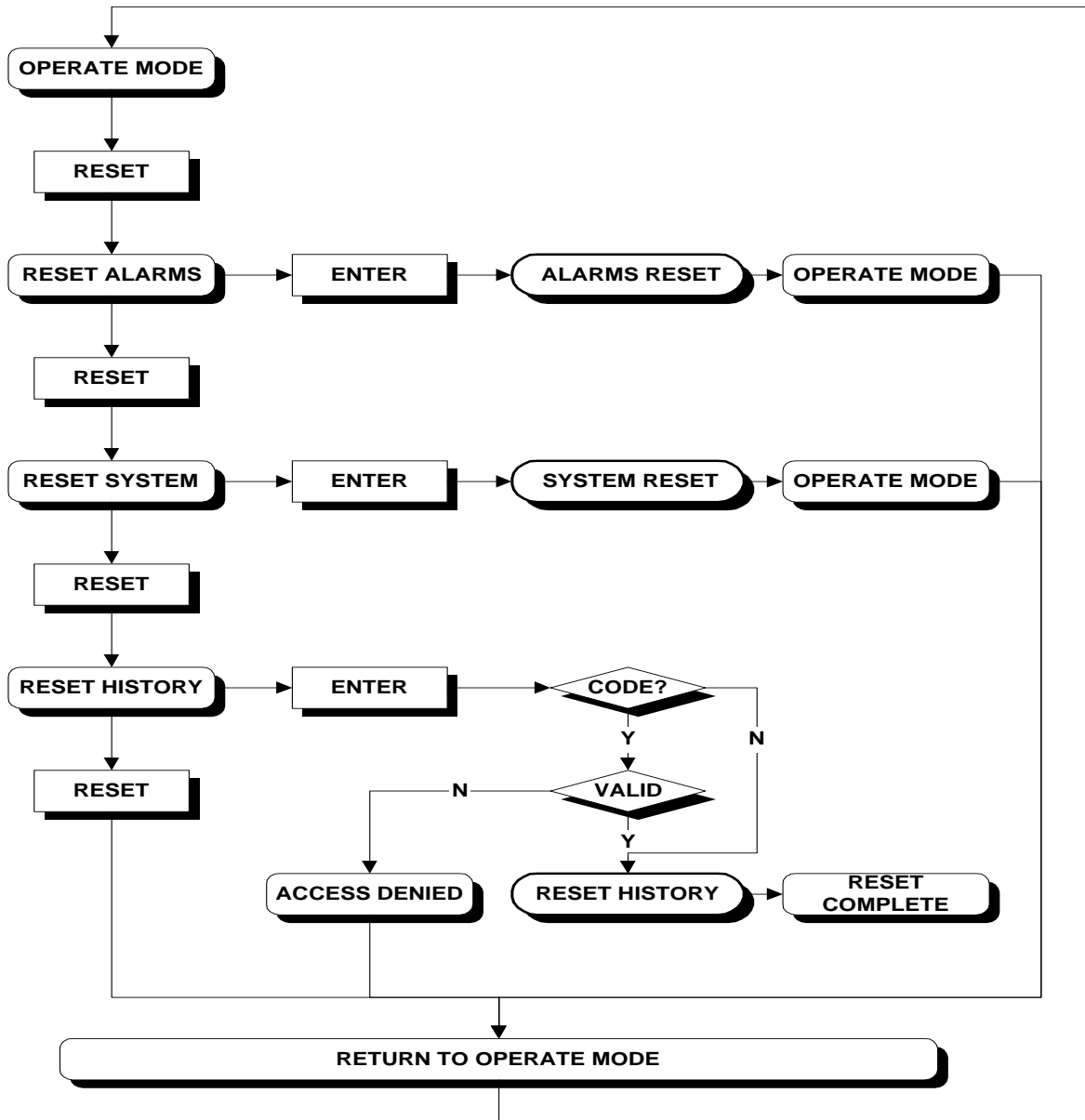


Figure 4-3
Sentry Reset Key Flow Chart

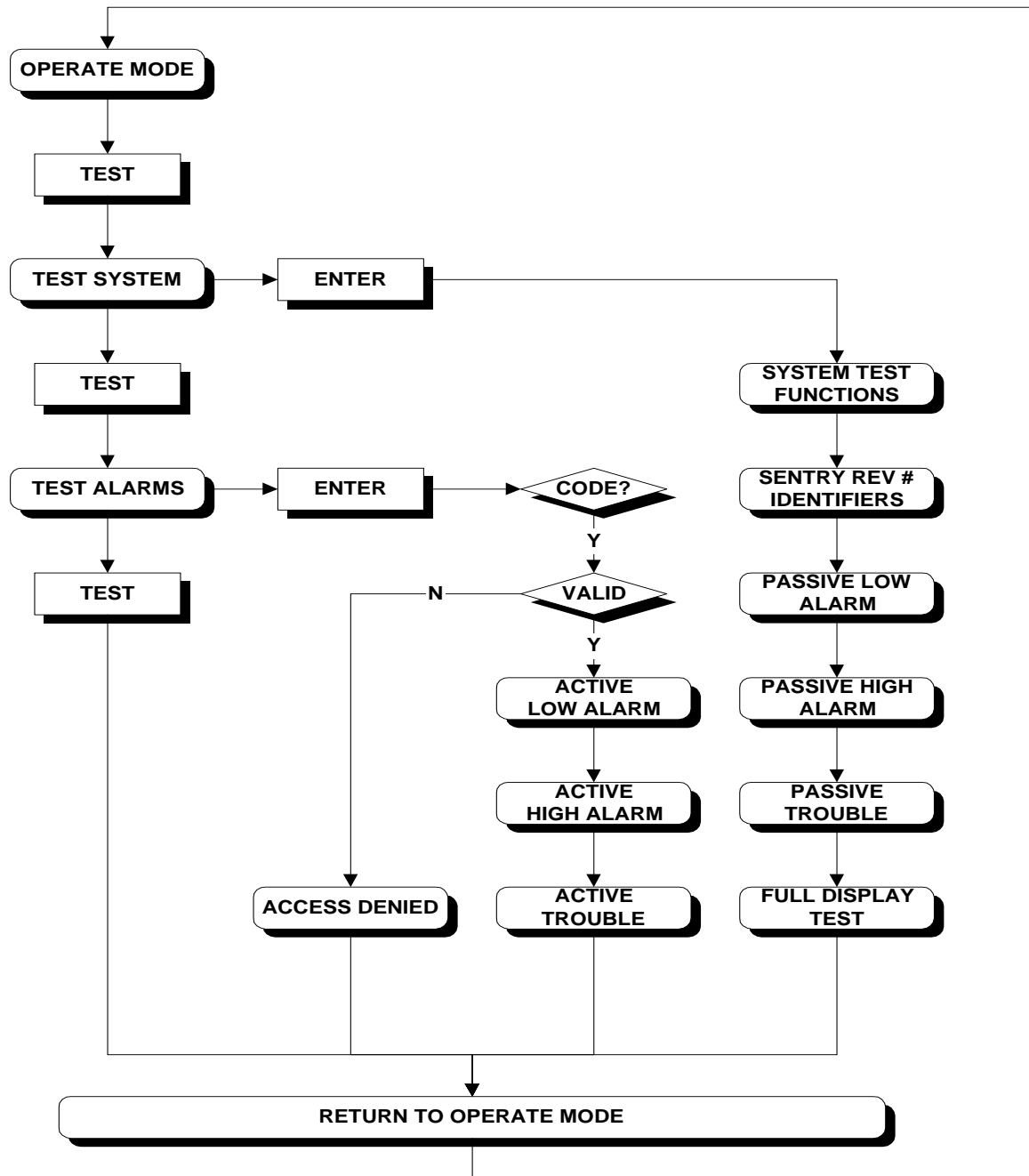


Figure 4-4
Sentry Test Key Flow Chart

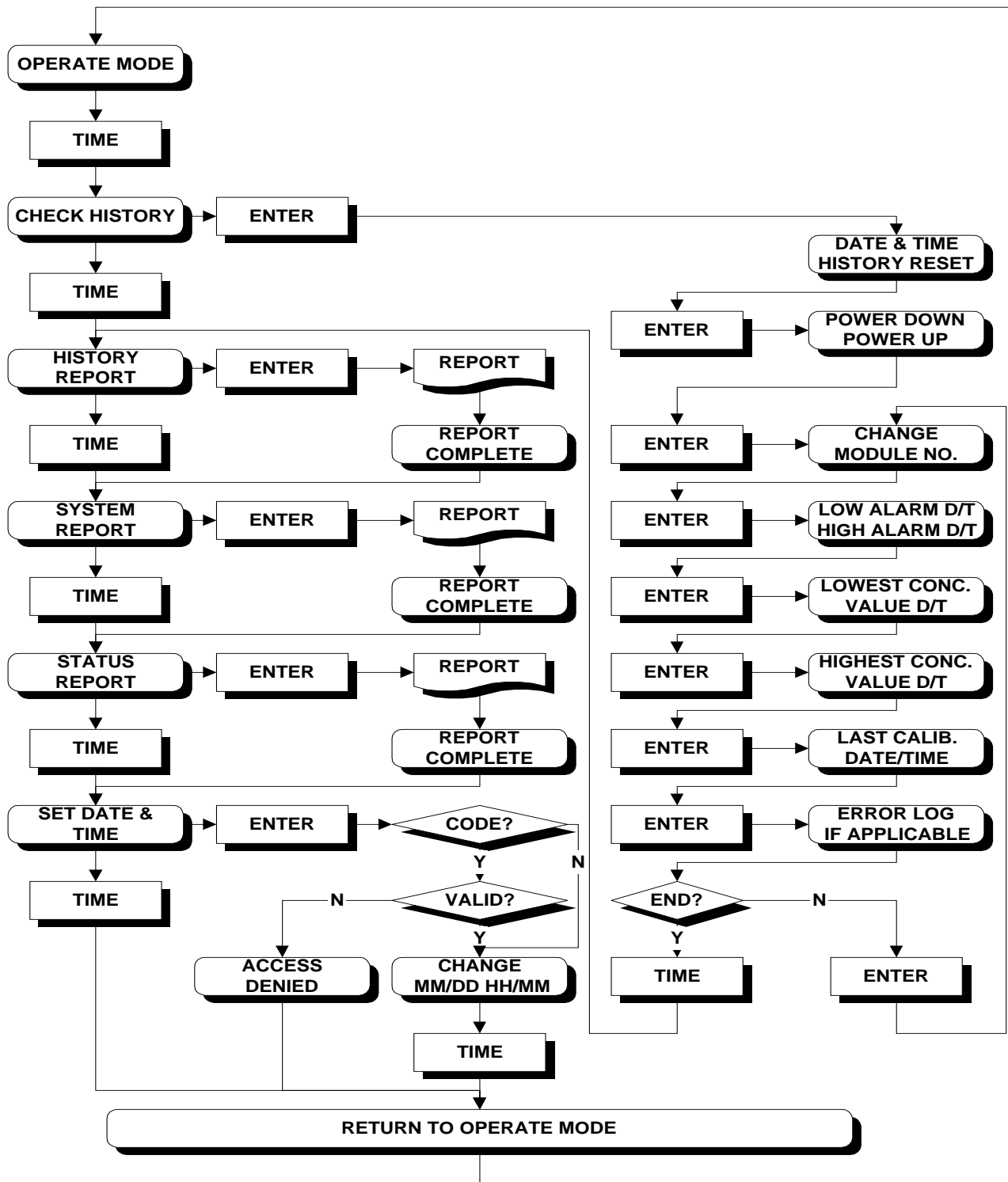


Figure 4-5
Sentry Time Key Flow Chart

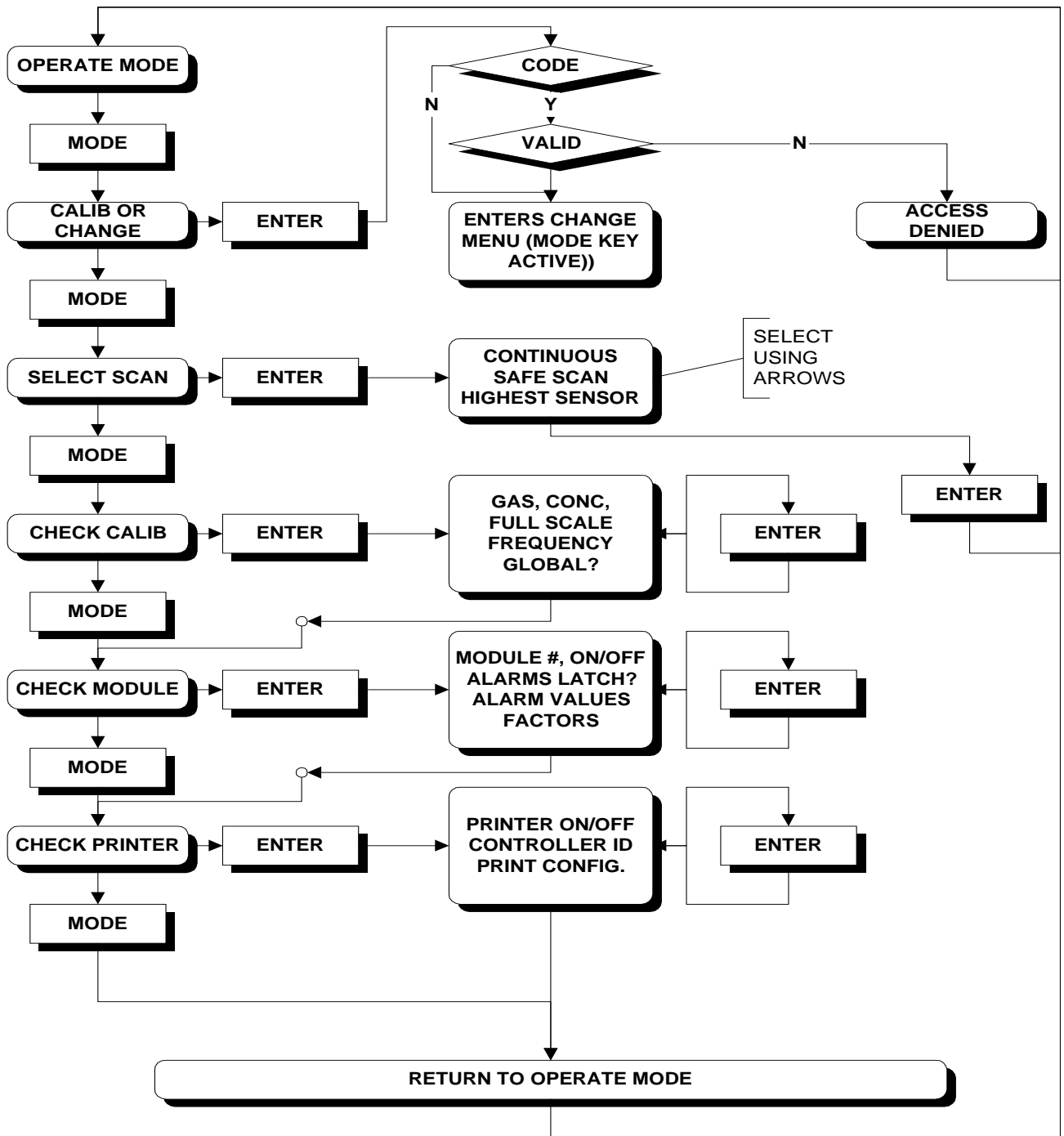


Figure 4-6
Sentry Mode Key (Passive) Flow Chart

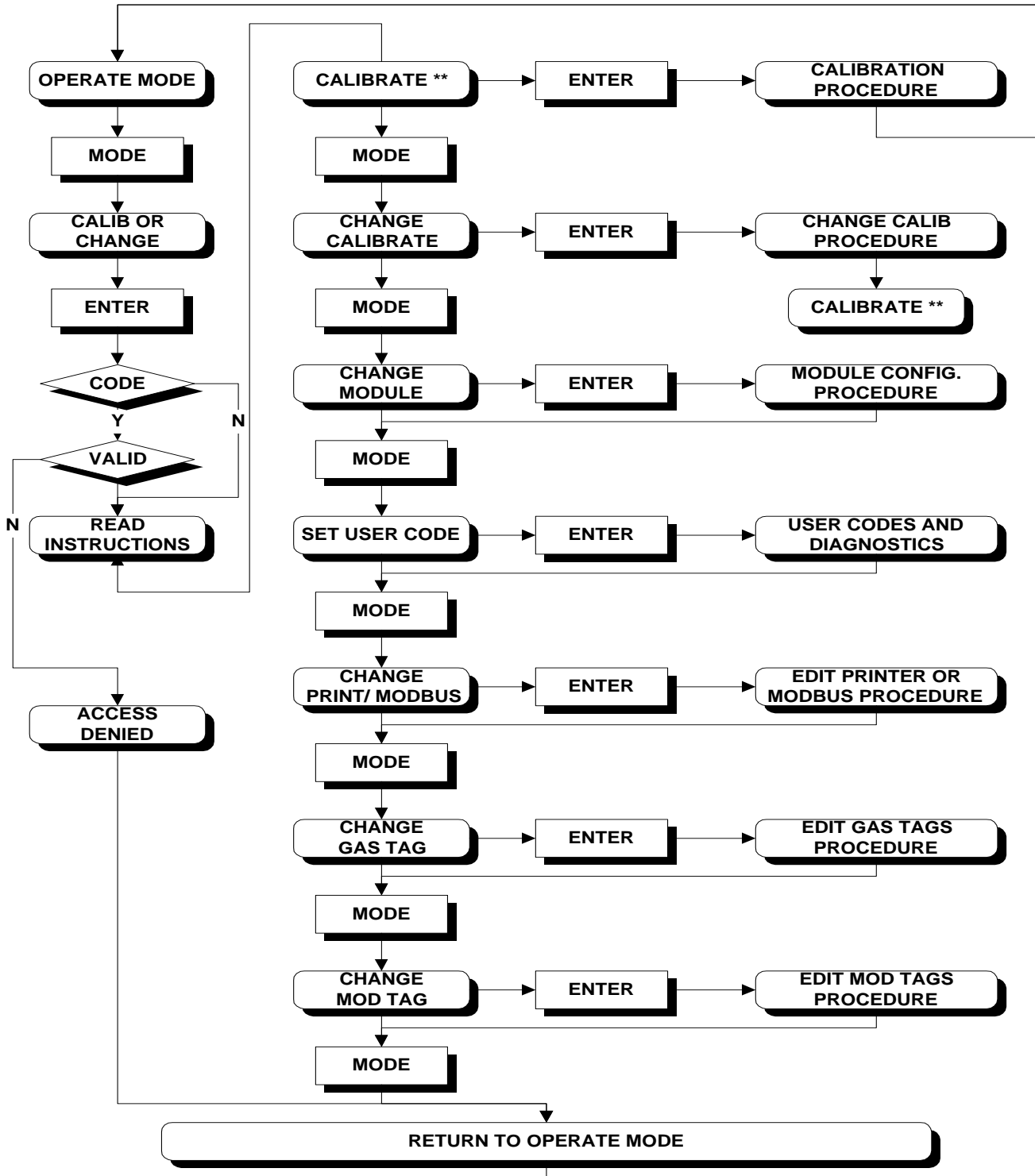


Figure 4-7
Sentry Mode Key (Active) Flow Chart