

# FONSAFE™ Demo Kit Instructions

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## 1. Kit Contents

Each FONSAFE Demo Kit includes the following components:

- Black, soft-sided demo case with shoulder strap
- Foam tray to hold and protect sensors
- Display board
- FONSAFE Master Control Unit (MCU) with special demo kit software
- Flair Feature Phone with power transformer
- Interrogator Alarm Verification Module
- Door and window demonstration board with two Door/Window sensors and remote keypad mounting bracket
- Remote Keypad
- Smoke Detector
- Wireless Interior Siren (WIS)
- Dummy Motion Detector (plastic only)
- Water Resistant Pendant Panic sensor
- X-10 Lamp Module with light bulb
- Dummy brown Door/Window sensor (plastic only)
- Dummy Shock Sensor (plastic only)
- Extension cord
- FONSAFE MCU and Interrogator owner's manuals
- FONSAFE MCU and Interrogator installation manuals (for programming reference only)
- FONSAFE Demo Kit Instructions

## 2. Special Features

Several demo kit components are modified to make the demonstration process easier:

### Flair Feature Phone

- The Demo Kit Flair phone is modified to disable the "Low Battery" reporting feature, so you never need to install or replace batteries. The phone, however, will not retain speed dial numbers, or keep time when powered down.

### FONSAFE MCU

- The Demo Kit MCU uses an EEPROM to store programming information, so no backup battery is needed.
- The MCU will automatically provide power to the Flair phone line inputs if no phone jack is readily available, so local phone control can be demonstrated.
- Only alarms on **sensor 1** (pendant panic) will cause the MCU to report to the monitoring bureau or initiate a two-way voice session. All other sensors will cause local-only alarms.
- The Demo Kit MCU will not send Restoral or Cancellation reports to the monitoring bureau.
- MCU "forgets" alarm and fault conditions when AC power is removed.
- Master Password is preprogrammed to **1234**.
- Siren time is defaulted to 10 minutes.
- A special keyboard RESET is provided in case you want to completely reprogram the MCU.

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## 3. Connecting the FONSAFE MCU

1. Open the FONSAFE Demo Kit case and remove the MCU.
2. Pull up on the gray demonstration easel and attach the Velcro™ strip on the back of the easel to the mating Velcro strip on the top of the demo case lid. The lid will support the easel and the demonstration equipment.
3. Unwrap the MCU AC power cord and feed it from the front side of the easel through the 1" diameter hole in the lower right corner and plug the cord into the supplied extension cord.
4. Locate the three modular phone cables attached to the back of the easel marked **SIREN**, **OUTSIDE LINE**, and **HOUSE PHONE**. Route these cables from the back side through the 1" hole to the front side of the easel.
5. There are 4 modular phone-style connectors in a recessed area on the back of the MCU. Noting that both the cables and connectors are labeled, connect the cables to the appropriate modular connectors on the back of the MCU.
6. Pull the excess from the AC power cable to the back side of the easel.
7. Line up the 4 MCU mounting slots with the 4 mounting bracket tabs and slide the MCU downward until the bracket latch clicks. (See Section 6-3 in the "FONSAFE Installation Manual" for additional details).

The MCU is now ready for AC power.

## 4. Applying Power to the FONSAFE Demo Kit

1. Always plug the demo kit phone cable into a modular phone jack **first** (see NOTE below).
2. Plug MCU power cord and the Flair phone transformer into the supplied extension cord.
3. Plug the extension cord, WIS, and X-10 modules into power outlets. They need not all plug into the same outlet.
4. After the MCU powers up, you can demonstrate MCU features, sensors, WIS, X-10 light control, and local and remote phone control operation.
5. To demonstrate monitoring bureau reporting and two-way voice operation, the MCU must first be "downloaded." See the "Downloading the MCU" section below for details.

**NOTE:** If the demo kit phone cable is not plugged into a phone jack **within 10 seconds** of powering the MCU, the MCU will disconnect itself from the phone line and apply power to the Flair phone to allow a stand-alone, local phone control demonstration. The MCU will not answer incoming phone calls, report to a monitoring bureau, or allow Interrogator demonstration in this mode. To change the MCU back to standard phone operation mode, plug the demo kit phone cable into a phone jack, then momentarily remove and reapply power to the MCU. Alternatively, plug the demo kit phone cable into a phone jack, and press the **Program** button, enter the Master Password, then press **7** and **OFF**.

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## 5. Demo Kit Programming

Each demo kit is pre-wired and programmed at the factory to be a stand-alone, non-reporting alarm system. See the FONSAFE Demo Kit Programming Reference Sheet and wiring diagrams at the end of these instructions for details. If you want to change the system programming, please refer to the MCU and Interrogator installation manuals for details. To program the MCU to report to a monitoring bureau and allow Interrogator two-way voice demonstrations, please follow the "Downloading the MCU" instructions in the following section.

**NOTE:** EEPROM keeps all programmed options in the MCU memory. If you would like to clear all preprogrammed information and start over from scratch, simultaneously press the \*, 9, Home, and Reset buttons. See the FONSAFE Installation manual for details on how to reprogram the MCU.

### Downloading the MCU

Although the majority of MCU programming can be accomplished from the MCU keyboard, the account number, reporting phone numbers, customer verification code, and several other options must be programmed from a CS-4000 Central Station Receiver. **Please note that the CS-4000 must be running Version 5.1 software or greater to properly work with the FONSAFE MCU.** To download the MCU, perform the following steps:

#### At the MCU

1. Make sure the demo kit phone cord is plugged into a phone jack **before** you apply power to the demo kit.
2. Make sure the Flair phone is on-hook.
3. Apply power to the MCU.
4. Press the **Program** button and enter the Master Password (**1234**) on the MCU keyboard.
5. Pick up the Flair phone hand-set and dial the phone number of the demonstration CS-4000 you intend to use.
6. When CS-4000 answers and begins generating a tone, press the **8** key on MCU keypad.
7. MCU should speak "Phone on for program change."
8. Replace hand-set on local phone.
9. The monitoring bureau will download the programming information to the MCU.
10. MCU will say "Phone call OK" when downloading is complete.

#### From the Monitoring Bureau

1. An uninitialized MCU has a 00-000 (default) account code.
2. The MCU is identified as a FONSAFE MCU for a CS-4000 with software versions 5.1 and greater.
3. To enter the account number, enter **ACCT xx-xxx** on the CS-4000 keyboard (where xx-xxx is a 5-digit account code, separated by a hyphen).
4. To enter the primary reporting phone number, enter **PHO xxxxxxxx** (where xxxxxxxx is the CS-4000 phone number, up to 14 digits long).
5. (Optional) To enter the secondary reporting phone number, enter **PHO2 xxxxxxxx** (where xxxxxxxx is another CS-4000 number).
6. (Optional) To enter the customer verification code, enter **CUSTCODE xxxx** (where xxxx is a 4-digit customer verification code).
7. Enter **RELEASE** to end the programming session.

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**NOTE:** MCU programming information is only stored to EEPROM when Program mode is exited or after a successful CS-4000 downloading session.

## 6. Demonstrating the Interrogator

The Interrogator is preprogrammed at the factory for use with the FONSAFE MCU (this includes enabling the **Program 7 5** option on the MCU). To demonstrate the Interrogator, make sure the MCU has been downloaded with the demonstration CS-4000 phone number and that the MCU was powered up with the demo kit phone cord plugged into a phone jack.

### Demonstrating Two-Way Voice with an Alarm Report

Remember that **only sensor 1** will initiate a monitoring bureau report. If another sensor is preferred for tripping two-way voice demonstrations, delete both sensor 1 and the "preferred" sensor and re-learn the "preferred" sensor followed by the original sensor 1. Also, be sure that the CS-4000 at the monitoring bureau is ready for a two-way voice demonstration. This can be done by entering the command **AUDIO INSTANT** at the CS-4000 (Instant is default audio mode; others include Dialout and OneRing).

#### At the MCU

1. Trip sensor 1.
2. Wait for the MCU to finish communications with the CS-4000.
3. The CS-4000 will signal the MCU to trip the Interrogator.
4. The monitoring bureau will come on-line to listen and/or talk back.
5. Note that the sirens have temporarily shut off during two-way voice communications.
6. Sirens start up again once the listen-in session is completed.

#### At the Monitoring Bureau

1. Have a phone connected in parallel with the phone line plugged into the demonstration CS-4000.
2. When the MCU reports the alarm, notice the AUDIO message in the phone line status box and an additional line stating "Audio Report Line X" appended to the end of the report.
3. Pick up the parallel phone.
4. Verify that there are beeps heard through the phone.
5. Enter **HANG-UP 1** to tell the CS-4000 to release line 1 (or whichever line is in parallel with the phone).
6. Enter \* on the parallel phone to acknowledge a connection to the Interrogator. Listen-in mode has begun.
7. To talk to the premises, press the **4** button and begin talking.
8. To listen again, press the **1** button.
9. To disconnect the call, press the **9** button twice.
10. See the FONSAFE Interrogator manuals for more information on programming and operations.

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## **Demonstrating Two-Way Voice with Remote Phone Access**

The Interrogator can be tripped by remotely accessing the MCU and entering the Interrogator trip command. This method does not require that the MCU be downloaded.

### **From an Off-Premises Phone**

1. Call the MCU phone number from a remote phone and let the phone ring twice, and hang up after the second ring.
2. Wait 10 seconds and call the MCU again. This time the MCU will answer the phone after the second ring.
3. Log into the MCU by entering the Master Password.
4. The MCU will begin speaking menu options. At this point, enter **\*\*0** on the remote phone to activate the Interrogator.
5. The MCU will command the Interrogator to seize the line, and the MCU will say "Good-bye" and hang up.
6. At this point, Interrogator acknowledgment beeps begin.
7. To acknowledge the Interrogator, press the **\*** button on the remote phone.
8. To talk to the premises, press the **4** button.
9. To listen to the premises, press the **1** button.
10. To disconnect the call, press **9 9** on the remote phone and the Interrogator will release the phone line.

# FONESAFE DEMO KIT PROGRAMMING REFERENCE

MCU

<b>MASTER PASSWORD</b> 1234		(SET AT POWER UP OR CHANGE WITH PROGRAM+MASTER PWD+3+1)			
<b>TIME</b>		11:11 AM (arbitrary) (SET AT POWER UP OR CHANGE WITH PROGRAM+MASTER PWD+1+1)			
<b>SENSOR PROGRAMMING</b> (PROGRAM+MASTER PWD+2+1+1)					
SENSOR	SENSOR CODE	DESCRIPTION #	ARM LEVEL	DELAY	
1. PENDANT PANIC	none	Master Bedroom (5)	n/a	n/a	
2. DWS	1 Door	Front Door (15)	Home	1 (Yes)	
3. DWS	2 Window	Living Room (10)	Away	2 (No)	
4. SMOKE	none	Hall (21)	n/a	n/a	
5. KEYPAD	none	Front Door (15)	n/a	n/a	
<b>LIGHTS PROGRAMMING</b> (PROGRAM+MASTER PWD+2+2+1)					
LIGHTS NUMBER	HOUSE CODE	LIGHTS TYPE	DESCR#		
8	A (default)	ENTRY/EXIT	FRONT DOOR (15)		
<b>PHONE PROGRAMMING</b> (PROGRAM+MASTER PWD+7)					
ALWAYS A LOCAL PANEL EXCEPT FOR SENSOR 1 ALARMS					
INTERROGATOR SELECT					
SUPPORT ENABLE OPTION 5					

# FONESAFE DEMO KIT PROGRAMMING REFERENCE

## INTERROGATOR

**PASSWORD** 1234 (DEFAULT)

**DISABLE RING DETECT** (ACCESS MCU FROM REMOTE PHONE, ENTER PWD AND PRESS \*\*0\*)

**LOGON**

\*#101234#

**CLEAR  
OPTION**

\*#330#

**EXIT**

\*99

# Sprint Demo Kit - Wiring Diagram

