

Care@Home™

Control Panel
User Guide

ESUGSC003

Version 2.5

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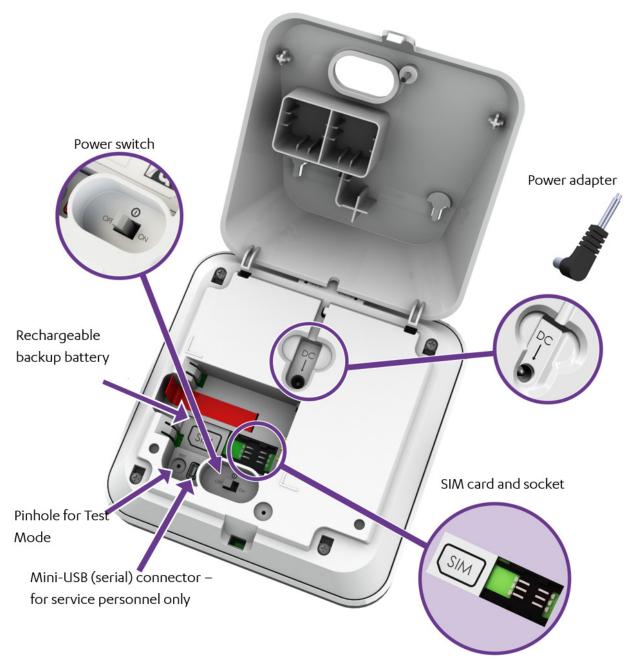
1. Overview

The Care@Home™ Control Panel (CP) is a connected, emergency-response control device, used for personal emergency applications. The CP is designed to monitor people living at home or in an assisted-living facility. The CP interfaces with the Care@Home™ sensor devices, collects information about the resident's daily activities, and transmits the information to the monitoring station.



The CP includes a high-volume speaker, and a sensitive microphone. The **EMERGENCY CALL** and **RESET** buttons on the CP, include molded and raised braille characters, for ease of recognition by visually impaired residents.





The CP has a rechargeable battery as a backup power source. The CP has an ON/OFF switch, allowing the CP to be turned **OFF** for storage, or while the resident is away for long periods of time.



1.1. Communications with the Monitoring Station

The CP communicates with the monitoring station using a cellular network or a standard telephone network Public Switched Telephone Network (PSTN) landline, according to the CP version. Cellular communication is supported by Pro, Family, and PERS. PSTN communication is supported by PERS. If there is a communications failure, the CP saves messages and sends them when communications are restored.



2. Installing the CP

Installing the CP includes the following:

- Determining the best location for the CP
- Setting up the CP
- Configuring the CP parameters

2.1. Determining the Best Location for the CP

Survey the premises to determine the best location for the CP It is recommended that you install the CP installation in either the **living room** or the **master bedroom**, in a location which is:

- Central within the premises
- Provided with sufficient cellular reception
- For a PSTN model, near an operating telephone jack
- Convenient for the resident to access, yet not where the CP would attract attention from unauthorized users
- Where the CP speakerphone can be heard throughout the premises
- Away from concrete walls to eliminate radio frequency (RF) interference
- Away from metal obstructions
- At least 2 m (6 ft.) from the peripheral devices

2.2. Necessary Items

Ensure you have the following:

Cellular Model	PSTN Model
Rechargeable backup battery	Rechargeable backup battery
■ Power adapter	■ Power adapter
■ SIM card – from the cellular service	■ PSTN telephone jack dedicated to the CP
provider	■ PSTN telephone cable for the CP



2.3. Setting Up the CP

To set up the CP:

- 1. Ensure the power switch is in the **OFF** position.
- 2. Push the ribbed tab at the bottom of the back cover, and lift the cover off.

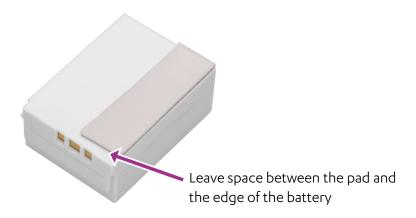


3. For the cellular model, insert the SIM card, with its contacts facing downward.





4. **For European product versions only**, attach the adhesive pad included in the kit, to the backup battery, such that the pad is on the side closest to the contacts. Make sure to leave space between the pad and the edge of the battery.



- 5. Insert the backup battery over the battery pull strip, such that:
 - The printed side of the battery is facing upward
 - The battery contacts are pointing towards the CP contacts

Ensure that the end of the battery pull strip is showing, and that the strip itself is not blocking the contacts.









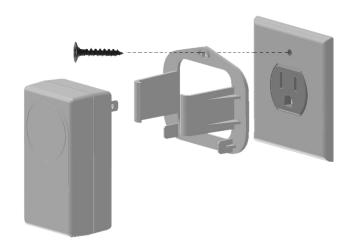
Caution: A new battery can cause damage if it is incorrectly installed.

6. Plug-in the power adapter connector into the CP power socket, securing the cable under the tab.



7. Connect the cable to power.

For USA product versions only, you should secure the power adapter cube.





8. Replace the back cover.



9. For the **PSTN** model, connect the CP to the landline.

Two PSTN phone sockets (RJ-11) are provided on the back of the CP PSTN model:



- i. Connect the phone cable between the **LINE IN** socket and the home phone jack. The telephone cable used should be at least of 26 AWG.
- ii. Optionally, you can connect a telephone to the **TO PHONE** socket, using the cable included in the Care@Home™ PERS kit.
- 10. Move the power switch to **ON**. The CP switches to **Stand By** mode. In this mode:



The **Power** LED is green.



The **Communication** LED is red.

In some cases, such as when the CP is pre-configured, the ring around the **EMERGENCY CALL** button is blue.

The cellular model of the CP now tests to confirm communications between the CP and the Care@Home TM server. Refer to GSM Connectivity Test on page 24.

When communication is established, the **Communication** LED is green.



2.4. Configuring the CP Parameters

CP parameters are pre-configured to manage and control the CP and the peripherals associated with the CP. If required, use the Care@Home TM CMS application to adjust the configuration for the requirements of the resident and the resident's family.

Refer to the CMS documentation for the version of Care@Home™ installed in the resident's premises:

- **PERS**: ESUG05071 Care@Home PERS CMS User Guide
- **Pro** or **Family**: ESUG05074 Care@Home CMS Reference



NOTE: To receive power fail notification, the CMS **Mains Failure** CP parameter must be enabled.



3. Operating the CP

The CP is the core of Care@Home™, communicating with the various peripherals to monitor a resident's activity, triggering emergency and safety alarms, acting as a speakerphone, and enabling emergency conversations and remote call-in. In addition, the LEDs on the CP light up to display helpful information.

3.1. Monitoring a Resident – PRO and Family

The **PRO** and **Family** solutions allow the monitoring of a resident's activities with a variety of detailed reports based on an analysis of the information collected by the peripherals. For information, refer to ESUG05050 Care@Home Caregiver User Guide.

3.2. Monitoring a Resident - PERS

The **PERS** solution allows the monitoring of residents with the following features:

- Activity Timer
- Inactivity Timer

3.2.1 Activity Timer

The activity timer feature is configured with the CMS application, creating time slots during which resident activity is checked by asking the resident to press the **RESET** button.

- When the activity timer is enabled, the **Activity** LED is a steady blue
- Fifteen minutes before the end of the session, the CP reminds the resident to press the **RESET** button, and the **Activity** LED is a blinking blue

If no activity is confirmed during the session, the CP sounds an announcement that the activity timer has expired and an activity event is reported to the monitoring station.

3.2.2 Inactivity Timer

The inactivity timer feature is configured with the CMS application, creating time slots during which resident activity is checked using the sensors on the premises. The CP provides no visual or audible indications to the resident of an inactivity timer operation.

The CP communicates with the monitoring station when no activity is detected.



3.3. Emergency Alarms

Emergency alarms are triggered by pressing the **EMERGENCY** button on the CP.

In addition, an emergency alarm can be triggered by the following devices:

Device	Description
Emergency Pendant Advanced (ES700EPA)	An emergency panic button with fall detection capability, worn by the resident. Alarm triggered by pressing the panic button, or when a fall is detected.
Emergency Pendant (ES700EP) Emergency Pendant Plus (ES7000EPP) Emergency Pendant Advanced - BC (ES7000EPA – BC)	An emergency panic button, carried or worn by the resident. Alarm triggered by pressing the panic button.
Voice Panic Detector (ES700VPD)	Stationary emergency panic button with active voice detection. Alarm triggered by pressing the panic button, pulling out the cord, or calling out the trigger phrase.

In response to an emergency alarm, the CP communicates with the monitoring station.

3.4. Safety Alarms

Environmental situations, detected by the peripherals, can trigger the CP to sound the following alarms:

- Water leakage triggered by a flood detector
- **Extreme temperature** triggered by any of the peripheral devices
- Fire triggered by a smoke detector

The ES700SK2 smoke detector features an internal siren which sounds in addition to the CP alarm if smoke is detected.





NOTE: For compliance with the UL 985 and ULC-S545 standards, the ES700SK2 smoke detector must be part of Care@Home $^{\text{TM}}$.

3.5. Speakerphone

The CP can be configured to function as a speakerphone only for incoming calls. The speakerphone does not function if the CP is running on a backup battery. The speakerphone feature can be disabled by the monitoring station.

When the CP rings, the resident can:

- Press the **EMERGENCY** button to initiate a full-duplex conversation
- End the call by pressing the EMERGENCY button again



NOTE: The Care@Home™ Voice Panic Detector (VPD) has a voice extender capability which also allows the call center of the monitoring station or caregiver to communicate with the resident. Refer to ESUGSC018 Care@Home VPD User Guide.

3.6. Emergency Conversation Flow with the CP

The CP supports the following types of conversation flow:

- **Half-Duplex**: only one party can speak at a time. In this mode, DTMF control is supported. Refer to 3.6.1 Half-Duplex Conversation Flow on page 15.
- **Full-Duplex**: both parties can hear and speak at the same time. The call center operator can use telephone keypad numbers 1 or 3 (or as otherwise configured) to switch to half-duplex.



NOTE: To configure the keypad assignments, or the **Conversation Mode** parameter, refer to the Care@Home™ CMS documentation for the version of the Care@Home™ system installed on the resident's premises.



3.6.1 Half-Duplex Conversation Flow

When a resident presses the **EMERGENCY** button on their CP, the CP connects to the call center of the monitoring station. A call center operator responds by managing the half-duplex conversation flow with the CP, using the telephone keypad. The conversation flow begins with the operator speaking to the resident.

The following table describes the half-duplex conversation flow triggered when the call center operator presses the telephone keypad.

Table 1: Half-Duplex Conversation Flow

Keypad Number	Action	CP Action
1	The operator speaks to the resident	Disables the CP microphone and enables the CP speaker. The Power LED is green (On) The other LEDs are off
3	The operator listens to the resident.	Enables the CP microphone and disables the CP speaker. The Power LED is green (On)
		 The Communication and RESET LEDs are orange The Trouble LED is red
		■ The Activity Timer ring is blue (On) RESET O
2	Increases the speaker volume.	Increases the speaker volume one level. There are five volume levels.
0	Lowers the speaker volume.	Lowers the speaker volume one level. There are five volume levels.



Keypad Number	Action	CP Action
9	Disconnects the operator's call to the resident's CP.	Disconnects call.

The following table shows the additional default DTMF codes which apply if Care@Home™ has a VPD with voice extender capability. Refer to ESUGSC018 Care@Home VPD User Guide.

Table 2: Half-Duplex Conversation Flow with VPD Voice Extender Capability

Keypad Number	Action	CP Action
6	Transfers the call to the next device in the loop of VPD and CP devices.	CP announces: When talking to CP: "Now talking to Control Panel" When using VPD and device location is known: "Now talking to <location>" When using VPD and device location is unknown: "Now talking to VPD <device id="">"</device></location>
5	Transfers a call that had previously been to a VPD to the CP.	CP announces: "Now talking to Control Panel"



NOTE: DTMF keypad assignments can be configured in the CMS application. Refer to the Care@Home™ CMS documentation for the version of Care@Home™ installed on the resident's premises.

3.7. Making a Remote Call-In

The **Remote Call-In** feature is configured with the CMS application and enables the operator or the caregiver to call into the resident's home via the CP, without the CP sounding or otherwise alerting the resident.



The operator or the caregiver can use the **Remote Call-In** feature to try and verify a resident's status when, for example, no activity is detected in the resident's home, or there is some concern about the resident.

The emergency conversation flow is always half-duplex. Refer to 3.6.1 Half-Duplex Conversation Flow on page 15.

Refer to the Care@Home[™] CMS documentation for the version of Care@Home[™] installed on the resident's premises.

To make a remote call-in:

- 1. Call the resident's CP, using either the CP landline or the CP cell phone number. Wait for the configured number of rings. The CP answers automatically.
- 2. Press '*' and enter the four-digit DTMF code.



NOTE: The default DTMF code is 1234. It is recommended to check if the code has been changed.

3. Manage the half-duplex conversation. Refer to 3.6.1 Half-Duplex Conversation Flow on page 15.

3.8. CP LEDs

The LEDs on the CP display important information about the CP operation.

Table 3: CP LEDs

LED	Display	Description
Power	Green	 ON – AC power connected Blinking – Battery operation OFF – No power or in sleep mode
Communication Green		ON – Communication availableBlinking – Active transmission



LED	Display	Description	
	Red	 ON – Communications failure: Cellular version: no SIM card, loss of cellular network, or GSM connectivity test failed PSTN version: PSTN line unavailable Blinking – Blocked transmission ON – An active voice window following an emergency call 	
	Orange	ON – GSM connectivity test is running	
RESET	RESET Orange	ON (for three seconds) – Button pressed	
Trouble		■ ON and CP beeps – CP or peripheral malfunction, or lost communications with the monitoring station	
	Red	■ Blinking and CP beeps – Peripheral supervision lost or low battery power	
		NOTE: To stop the beeps, press RESET	
Activity Timer	ERGEN	ON – Activity timer is on	
	m	■ OFF – Activity timer is off	
	Blue ring	■ Blinking – Activity timer expires in less than 15 minutes	
EMERGENCY CALL	Red	ON – Message acknowledgedBlinking – Alert in progress	



4. Restoring Factory Settings

Restoring the CP to factory settings:

- Removes all peripherals
- Resets all parameters to factory defaults



Caution: Consult with Essence Smart Care technical support before restoring factory settings.

To restore factory settings:

1. Press and hold the **RESET** button.



- 2. While holding the **RESET** button:
 - a. Insert a probe or the open end of a paperclip into the CP's **TEST** pinhole.
 - b. Press the button inside the **TEST** pinhole and hold for five seconds.



The CP LEDs flash and the CP beeps three times. The CP is restored to factory settings.



5. Removing Peripherals -PERS Only

When a peripheral paired with the CP, such as an EP, is lost, the monitoring station continues to receive messages from the CP about the peripheral until the peripheral is removed from the CP. In such a case, it is recommended to remove the peripherals from the CP.



NOTE: All peripherals are removed. Therefore, you must again pair all the peripherals with the CP.

To remove the peripherals from the CP:

- 1. Press the **PAIRING** button, and hold for five seconds.
- 2. Press the **RESET** button, and hold for five seconds. A vocal message from the CP instructs you to press the **PAIRING** button to remove all peripherals.
- 3. Press the **PAIRING** button. A vocal message from the CP confirms that all devices were removed from the CP.



6. Maintaining the CP

CP maintenance includes:

- Software updates
- Communications maintenance
- Backup battery replacement

6.1. Software Updates

When there are CP software updates, you must install the updates to your Care@Home™.

See the section on the **Remote Boot** feature in the Care@Home[™] CMS documentation for the version of Care@Home[™] installed on the resident's premises.

6.2. Communications Maintenance

If the CP uses cellular communications and the quality of the connection becomes unreliable, consult the cellular service provider to replace your SIM card or repair the connection.

If the CP uses landline (PSTN) communications and the quality of the landline becomes unreliable, consult the landline service provider.

6.3. Replacing the Backup Battery

The backup battery recharges automatically when installed in the CP and the CP is connected to AC power. The battery can continue to be recharged for up to three years.

When the CP reports Low Battery for the CP, the battery is not recharging. Replace the CP battery.



Caution: A new battery can cause damage if it is incorrectly installed. Be careful to replace the battery only with the same or equivalent type recommended by the manufacturer. Discard used batteries responsibly.



7. Specifications

The following table lists the CP technical specifications.

Table 4: Technical Specifications

Item	Data	
Part Number	ES6502HC	
Weight	1.23 lb. (0.56 kg), including adapter and battery	
Dimensions (H x W x D)	152 x 152 x 71 mm - 6 x 6 x 2.8 in.	
Mains Power	100-240 VAC, 50/60 Hz, 500 mA	
Reporting Modes	PSTN model: SIA Contact ID CPC Voice Signaling Debug Printing 4x2 BS 8521:2009 Cellular model: SIA IP DC – 09 SCAIP Voice Signaling Debug Printing	
Frequency	FSK modulation: 869.225 MHz (Europe) 868.3 MHz (China) 916.5 MHz, 916.3 MHz (North America and Australia) 800 MHz (Israel)	
Communication Channels	Two different models: PSTN or cellular	
Color	White and grey	



Item	Data		
Backup Battery	Li-Po, 3.7 V, 1400 mAh (North America) or 2800 mAh (Europe)		
	24-hour backup		
	Rechargeable with three-year battery life		
Peripheral Devices	Up to 64 peripheral devices can be assigned		
Operating temperature	0°C - 49°C (32°F - 120°F)		
Compliance	 CE, FCC, IC, UL, cUL EN 60950-1 EN 301 489-1 & EN 301 489-3 EN 300 220-1 & EN 300 220-2; Receiver sensitivity: -108 dBm EN 50130-4 EN 50130-5 Environmental Class I EN 50134-2, EN 50134-3, and 50134-5 EN 50136-2:2013 Category C (D3, M3, T1,A1,S0,I0) Operation Mode-Pass-Through PSTN model: ANSI/TIA-968-B - Terminal equipment standard Cellular model: AT&T and PTCRB compliance EN910-EUR - Compliant with Global Connection (GCF) requirements, as well as the Global System for mobile communications standard EN 301 511 		



Appendix A GSM Connectivity Test

When you turn the cellular model on, the CP automatically tests the connectivity between the CP and the Care@Home™ server via the GSM cellular network.

During the test:

■ The CP ignores any incoming commands

The CP does not send any event messages or data to the Care@Home™ server

■ The Communication LED shows success or failure as detailed in the following table



NOTE: If the LED blinks red at the start of the test, it shows that the LED has been disabled using CMS. Refer to the CMS documentation for the version of Care@Home $^{\text{TM}}$ installed in the resident's premises.

Monitor the test to be able to report the detail if the test fails.

Table 5: GSM Connectivity Test

Test Step	Success	Failure
CP sends APN information to the cellular service provider (SP)	LED blinks redStep 2 begins	 LED is steady red The APN data is incorrect. Contact the SP to check or replace the SIM card.
2. If FTP is configured, checks for FTP connectivity with the Care@Home™ server	LED blinks redStep 3 begins	 LED blinks red for 30 seconds, then turns to steady red Report failure of this test to technical support at the monitoring station.
3. Sends events to the Care@Home [™] server using TCP	LED blinks redStep 4 begins	 LED blinks red for 30 seconds, then turns to steady red Report failure of this test to technical support at the monitoring station.



Test Step	Success	Failure
4. If STUN is configured, checks STUN connectivity with the Care@Home™ server	LED is steady greenTest ends	Communication LED is steady red Report failure of this test to technical support at the monitoring station.

To rerun the test:

- 1. Turn off the CP.
- 2. Wait a few minutes.
- 3. Turn on the CP. The CP recognizes that the last GSM connectivity test failed and reruns the test.

The results are logged in the CP event log file for Essence technical support analysis. The CP sends a log of the results to the $Care@Home^{m}$ server.



Appendix B **Testing Peripherals**

The CP enables testing paired peripherals to ensure that all components work properly.

Testing Activity Sensors

The CP responds with a voice message after each interaction with a peripheral. If the CP does not respond, make a note and continue testing.

To test the activity sensors:

1. Push a probe into the CP's **TEST** pinhole, once or twice, until the CP responds "Installation test starts".



- 2. Test the MGLSs:
 - a. Open and close the main door.
 - b. Open and close the refrigerator door.
- 3. Walk past each PIR.
- 4. Push a probe into the control panel's **TEST** pinhole until the CP responds, "Installation test ends".

Testing Emergency Devices

Emergency devices are button-based devices, including:

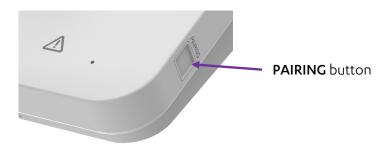
- VPD
- SPB
- SPD



- Pendants
 - EPA
 - EPP
 - EP

To test the emergency devices:

1. Press the CP's **PAIRING** button twice. The CP responds, "Control panel entered test mode". The power, communication, and trouble LEDs flash.



- 2. Press the pendant's button. The CP confirms with a voice message.
- 3. Test the VPD Do one of the following:
 - Press the EMERGENCY CALL button.
 - Pull the emergency cord.
 - Shout the trigger phrase.

The CP confirms with a voice message.

- 4. Press the SPB's **SOS** button. The CP confirms with a voice message.
- 5. Test the SPD Do one of the following:
 - Press the EMERGENCY CALL button.
 - Pull the emergency cord.

The CP confirms with a voice message.

6. Press the CP's **RESET** button. The CP responds, "Control panel exited test mode".

Troubleshooting

If the CP does not respond to a device being triggered:

1. Try moving the device and testing again.



- 2. Check CMS to ensure that the Trouble LED is not disabled:
 - a. Log on to CMS.
 - b. From the Main menu, click Voice & LED. The Voice & LED screen appears.



- c. Ensure that **Disable** is not selected.
- d. To disable the Trouble LED, while allowing emergency device testing, clear all choices.



Appendix C External Antenna

If the cellular reception is not strong enough, you may be able to solve the problem by using an external antenna.

To install an external antenna, first ensure you have:

■ The Essence external antenna adapter, and an antenna



NOTE: To obtain the adapter, and for information about a suitable antenna, contact Essence support.

- A Phillips screwdriver
- A flat screwdriver

To install the external antenna:

- 1. Turn off the CP.
- 2. Disconnect the CP from the mains power supply.
- 3. Remove the back cover, then remove the backup battery and SIM card, if any.



4.

5. Unscrew the four retaining screws from the bottom of the CP.



6. Use a flat screwdriver to press apart all the latch tabs, and remove the bottom of the CP from the front. The latch tabs are beside the screw holes.





7. Carefully disconnect the internal antenna connector from the circuit board.

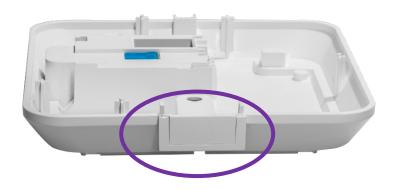


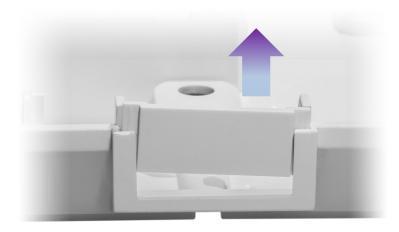
8. Carefully connect the external antenna adapter to the circuit board, to where the internal antenna was connected, as shown in the following image.





9. Slide the filler panel out from the bottom of the CP.





10. Align the bottom with the front of the CP, so that the external antenna adapter lies across the inner panel slot. Do not connect the bottom to the top of the CP.





11. Keeping the bottom close to the top of the CP, slide the plastic holder of the external antenna adapter into the inner panel slot.



12. Press the bottom of the CP firmly until it clicks into place.



- 13. Screw in the four retaining screws.
- 14. Attach the antenna to the external antenna adapter.
- 15. Reinsert the SIM card (if applicable) and backup battery and replace the back cover.
- 16. Reconnect the mains power.
- 17. Turn the CP on.



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