ANGEL4 FALL DETECTOR

User Guide

SENSE4CARE

ANGEL4 Fall Detector 3
Device-Sensor-Detector ANGEL4 3
Accessories: Retaining Clip 3
Accessories: Belt 3
Compatibility between ANGEL4 device and smartphone 3
ANGEL4 application main screen: 4
Widget 4
Start-up 5
Other configurations for customizing the system 10
General information 10
Settings 10
Alert Types 12
Panic Button 12
Fall Detection 13
Recovery Detection after fall 14
ANGEL4 Sensor low battery level 15
Smartphone low battery level 16
No communication between sensor and smartphone 17
Other considerations 18
Battery optimization 18
ANGEL4 is non-water resistant 18
Warranty 18
Commitment 18
Technical Features 18
System Test settings 19
Settings reset after Test is done 21

ANGEL4 Fall Detector

The package includes:

- 1 ANGEL 4 Device
- 2 AAA Batteries
- 1 Retaining Clip
- 1 First Steps Guide

Device-Sensor-Detector ANGEL4

The Device has not button nor other manual control to interact with. All actions should be done through the smartphone application, to turn it on and turn it off.

For proper performance, the sensor should always be positioned vertically (see pictogram on the label to avoid any confusion).

Accessories: Retaining Clip

The fall detector is provided with a belt clip you will find inside the box.

The clip is ideal for carrying the sensor when the user wears a belt all day long. It allows to place and remove the device in one movement and offers the maximum discretion when it is worn.

Accessories: Belt

For those who do not usually wear a belt where the clip can be fixed, we offer through our website (www.sense4care.com) the choice to purchase a specific belt with a small pocket where the sensor is carried in a safely and comfortable way. The standard measure of our belts cover people with a waist diameter between 80 cm and 130 cm. for measures 130 cm or above it, you can request a special belt sending an email to info@sense4care.com.

Compatibility between ANGEL4 device and smartphone

Requires Android 4.4 or higher.

ANGEL4 application main screen:

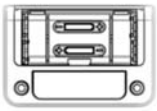
Panic button (SOS) is always available on the Emergency Area.

Widget

The widget is one of the most useful app's features. After installing it on the home screen, it enables a direct and fast control of application.

Start-up

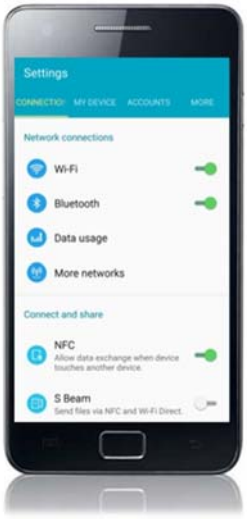
Step 1.- Battery insertion



Place the batteries on the device. You have to remove the device's back cover and insert the two batteries that you will find in the package next to the sensor. It is ready to run.

In case of long inactive periods, it is recommended to remove the batteries. Otherwise, the sensor will try to connect to the application shortening battery life.

Step 2.- Bluetooth connection



Once we have turned on user's Smartphone, activate the Bluetooth.

Settings / Networks / Bluetooth

We don't recommend to use another Bluetooth device with the user's phone while ANGEL 4 is running (for instance: headphones). Also, we DON'T recommend to turn off Bluetooth on the mobile.

Step 3.-Pair Detector with smartphone.

Press 2 seconds on Bluetooth icon and a list of <Available Devices> will appear, in which ANGEL4 should be included. If it is not, select <Search>.

Press 2 seconds on ANGEL4 and will be displayed in <Linked Devices>. Now ANGEL4 detector is paired with the smartphone.

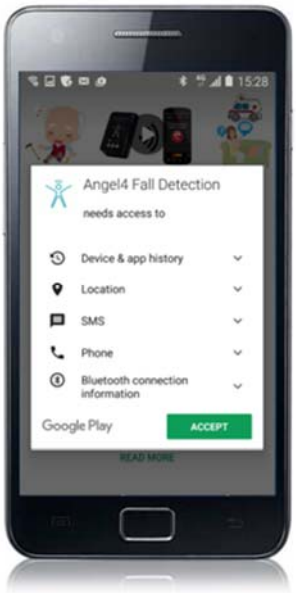
Step 4.-Download the application.

Download the application "ANGEL4 Fall Detector" in the la Play Store on user's Android smartphone.

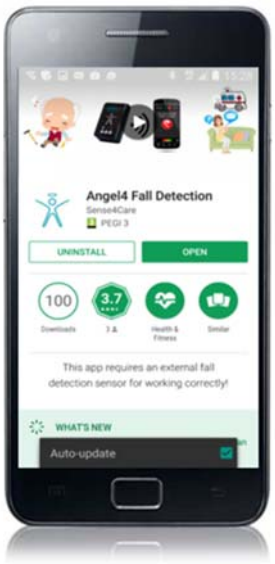
You can speed up download with a WIFI network connection.

Step 5.- Install the application.

When is downloaded, proceed to install.



The application will ask access to some functionalities of the system. Press <Accept>.



A message will appear informing us that the installation has been correct. Click <Open>.

Step 6.- Contact telephone number request.

After clicking <Open>, this message will appear. For the first time, the application will ask for the contact number. Accept <OK>.

Step 7.- Personal Information

Only <Relative/assistant phone number> is compulsory. This number will be the one that will receive warnings (SMS, Calls or both).

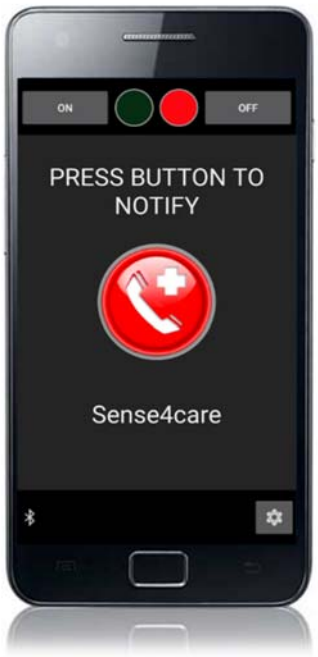
Step 8: Introducing telephone number

Enter the contact number to whom you would like to advise in case of fall. Press <OK>.

Please do not enter the user's telephone number. It will not work.

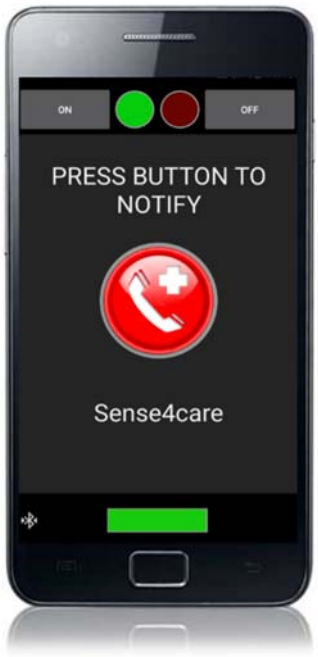
Press 2 seconds to go back the main screen.

Step 9: Main Screen



This is the main screen the first time you run the application. Note that Bluetooth icon appears without triangles, and that there is not batteries state bar.

Once we press <ON>, Bluetooth paired icon will appear as well as the device batterie status bar.



When application is on and paired with the sensor, the main screen looks like this. On the bottom of the screen, Bluetooth with two triangles icon and the battery status bar will be displayed.

Other configurations for customizing the system

General information

<Name of relative/assistant>
Enter name of the relative or assistant you wish to inform.

<Relative/assistant>
Enter the number of the relative or assistant you wish to inform.

<User name>
Enter the user's name.

<Age>
Enter the user's age.

<Gender>
Enter user's gender.

<Add extra relatives/assistants>
These contacts only receive SMS Warning.

Settings

In the configuration menu, you can customize different options in order to fit the sensor with your needs. By default, the system has been configured to send an alert by means of <SMS + Call>. Timings have been set to maximize the system efficiency.

<GPS Scanning time>
Select minimum GPS scanning time. A very short timing can increase batteries consumption.

- Recommended time: 5 min

Be sure that Geo-localization is activated on the user's smartphone, in order to send it if a fall occurs.

<Warning pop-up time>
Select time for alert pop-ups.

- Recommended time: 3 min.

<Fall warning>
Select alert type when a fall is detected.

Please, check that GPS is activated, otherwise it will not send the user's geo-coordinates.

- Alert Type recommended: SMS + Call.

<Recovery warning>
Select alert type when a recovery is detected.

- Alert Type recommended: SMS + Call.

<Critical Battery level warning>
Select alert type when a low battery level is detected (device + smartphone).

- Alert Type recommended: SMS + Call.

<Panic Button>
Select alert type when the Panic Button is pressed.

- Alert Type recommended: SMS + Call.

<Sensor not detected warning>
Select alert type when sensor is not detected, or there is not communication between sensor and Smartphone.

- Alert Type recommended: SMS + Call.

<Waiting time without sensor>

- Time recommended: 30 min.

<Waiting time after a fall>
Select waiting time after a fall is detected and warning is launch.

- Time recommended: 3 min.

<Fall Detector>
Fall Detector status: on and off.

Must be activated for a proper performance.

<Widget>
Widget status: activated or deactivated

To be displayed on the desktop, widget should be activated. Then, go to System settings <Add application and widgets> and drag the ANGEL4 widget to the desktop. This process can be different from one to another Android Smartphone.

<PIN>
PIN status: activated or deactivated

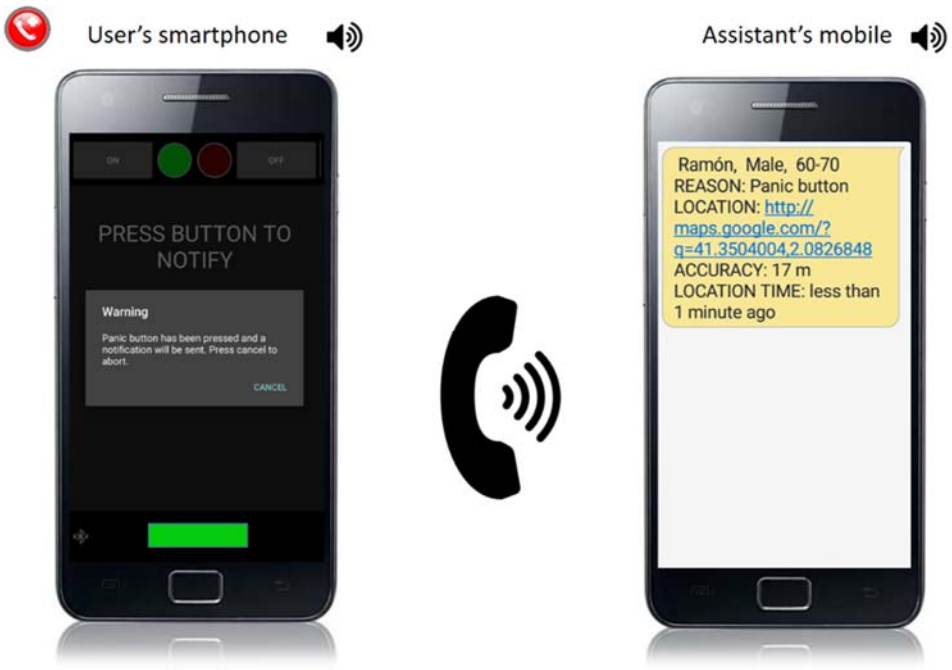
Alert Types

Before sending a SMS and Call, the application shows a pop-up message on user's mobile screen informing about the type of warning generated. It will give a period of time (defined on the settings in Time pop-up messages). By default, it is set to 3 minutes. During these 3 minutes, user can cancel the alert and abort the SMS and Call.

Panic Button

An alarm sounds and the following pop-up message will appear on the screen on User's smartphone:

Warning: Panic Button has been press and a notification will be sent. Press cancel to abort.



If user does not cancel, the assistant or relative will receive this SMS and call if it is so defined.

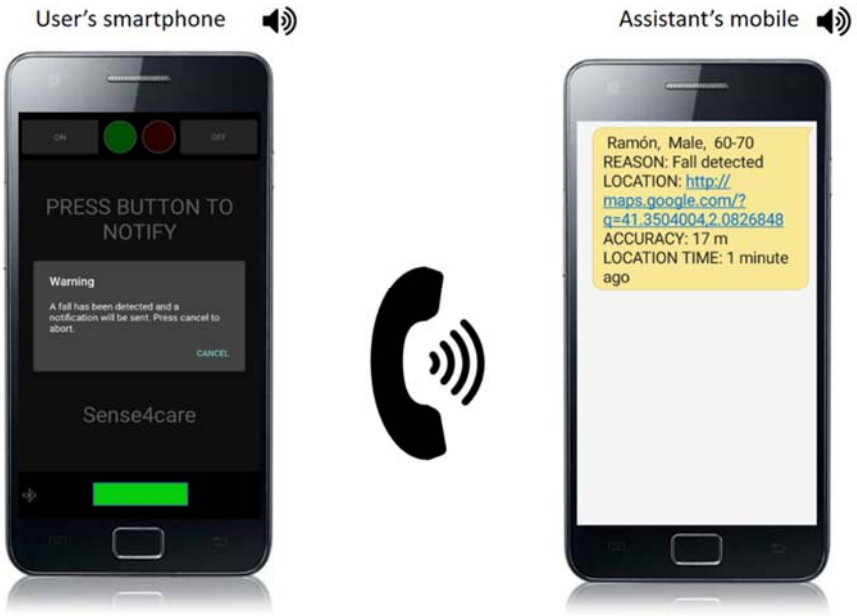
Message content:

Name, Gender, Age, Alert type, Location, Accuracy of location, Last time located.

Fall Detection

An alarm sounds and the following pop-up message will appear on the screen on User's smartphone:

Warning: A fall has been detected and a notification will be sent. Press cancel to abort.



If user does not cancel, the assistant or relative will receive this SMS and call if it is so defined.

Message content:

Name, Gender, Age, Alert type, Location, Accuracy of location, Last time located.

Recovery Detection after fall

An alarm sounds and the following pop-up message will appear on the screen on User's smartphone:

Warning: A recovery has been detected and a recovery notification will be sent. Press cancel to abort.

If user does not cancel, the assistant or relative will receive this SMS and call if it is so defined.

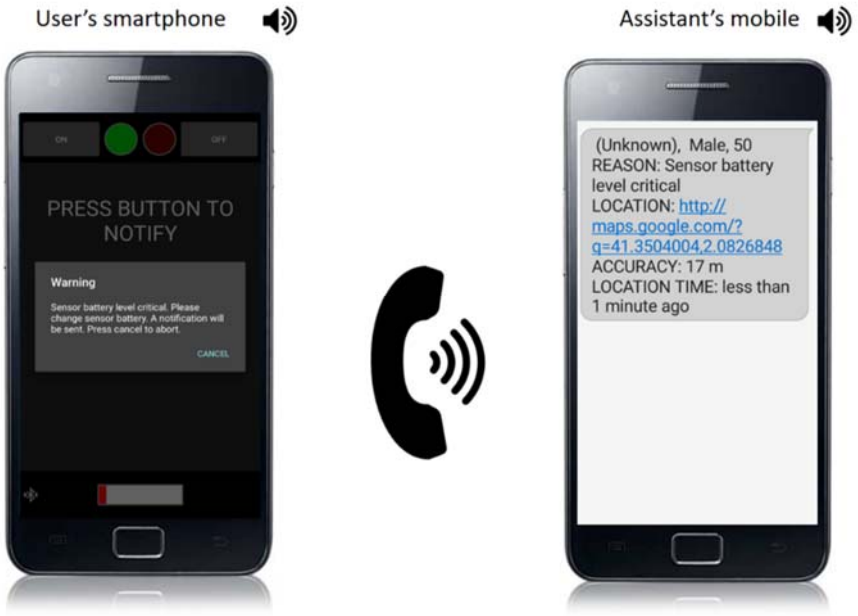
Message content:

Name, Gender, Age, Alert type, Location, Accuracy of location, Last time located.

ANGEL4 Sensor low battery level

An alarm sounds and the following pop-up message will appear on the screen on User's smartphone:

Warning: Sensor battery level critical. Please charge sensor battery. A notification will be sent. Press cancel to abort.



If user does not cancel, the assistant or relative will receive this SMS and call if it is so defined.

Message content:

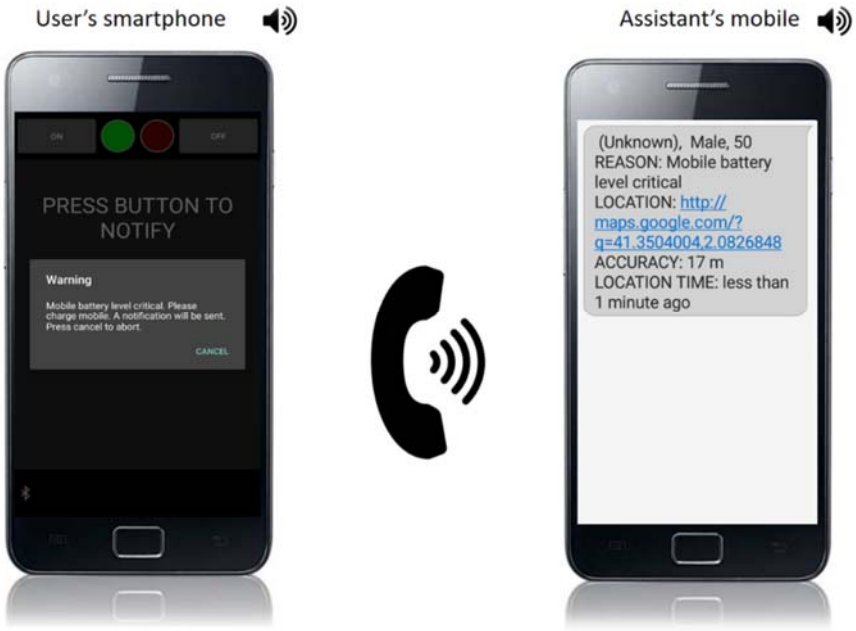
Name, Gender, Age, Alert type, Location, Accuracy of location, Last time located.

Replace batteries with similar ones. Dispose them in the special collection site, recycling depots or waste management companies.

Smartphone low battery level

An alarm sounds and the following pop-up message will appear on the screen on User's smartphone:

Warning: Mobile battery level critical. Please charge mobile. A notification will be sent. Press cancel to abort.



If user does not cancel, the assistant or relative will receive this SMS and call if it is so defined.

Message content:

Name, Gender, Age, Alert type, Location, Accuracy of location, Last time located.

No communication between sensor and smartphone

An alarm sounds and the following pop-up message will appear on the screen on User's smartphone:

Warning: Sensor has exceeded maximum time without connections. A notification will be sent. Press cancel to abort.

If user does not cancel, the assistant or relative will receive this SMS and call if it is so defined.

Message content:

Name, Gender, Age, Alert type, Location, Accuracy of location, Last time located.

Other considerations

Battery optimization

When the sensor is not in use for a long period, remind to switch off the application and remove the batteries.

ANGEL4 is non-water resistant

Sensor cannot be used underwater or in environments in contact with water, since water would affect its electronic system. Please, avoid its use in the shower and do not handle the sensor with wet hands.

Warranty

2 years from the date of purchase. The Angel4 device has been manufactured with strict quality guidelines and meticulously examined before delivery. You can check our General Conditions at our website (www.sense4care.com).

Commitment

Our Fall Detector is a high quality product and it has been tested for over 2 years, based on a very wide sample of people, in a pilot developed in three different european countries. In this pilot efficiency ratio reached more than 95% in fall detection under real world living conditions.

Technical Features

Dimensions:	6,5 x 4,3 x 1,8 cm
Weight:	53 gr
Battery Autonomy:	3 months
Compatibility:	Android 4.4 or higher
Communication:	Bluetooth Low Energy (BT4)

Note: Angel4 can be integrated in Emergency Systems and Remote Care Service.

System Test settings

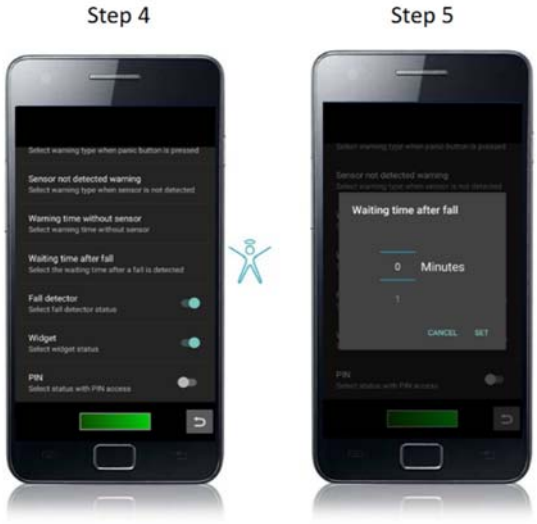
Step 1: Switch off the application <OFF>

Step 2: Press settings icon 2 sec.

Step 3: Verify that <SMS + Call> Type Message in <Fall detection>. Press <OK>.

Step 4: Search <Waiting time after Fall detected>.

Step 5: Change to 0 min <Waiting time after Fall detected>. Press <SET>



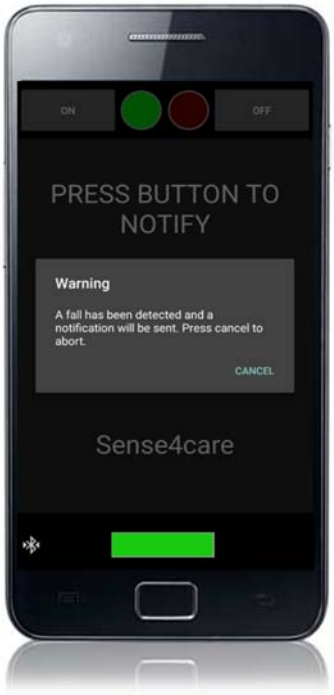
Change the time between a fall is detected and the alarm starts. For testing, we recommend to change the default value to 0 sec, this way the alarm bell sounds immediately.

After the Test is done successfully, the default value must be reset to 3 min. This value optimizes the system efficacy.

Step 6: Shake the sensor and leave it horizontally.

In few seconds, user's Smartphone produces an audible alarm and a pop-up message will appear with the following message.

If you Press <CANCEL>, you abort the sending of SMS and Call.

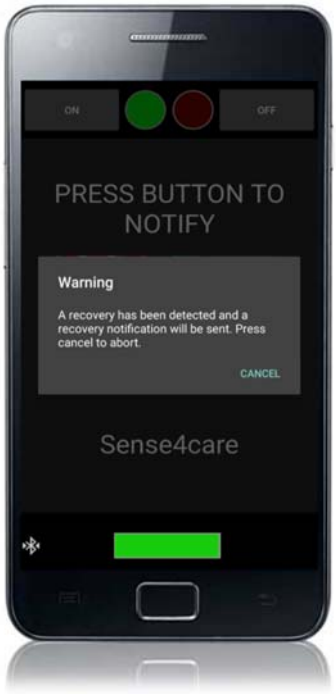


Step 7: Turn the sensor into a vertical position.

In few seconds this message will appear.

After, the application will proceed to send a SMS and Call to relative/ assistant.

If you Press <CANCEL> the sending SMS and Call will be aborted.



Settings reset after Test is done

Step 1: Switch off the sensor, <OFF>.

Step 2: Press settings icon 2 sec.

Step 3: Go to <Waiting time after a Fall>.

Step 4: Set 3 minutes and Press <ACCEPT>. This is the value by default to avoid false positives.

⚠ **When not in use, remind to:**

- **Switch off the device.**
- **Remove the batteries if the sensor will be not used for a long period of time.**