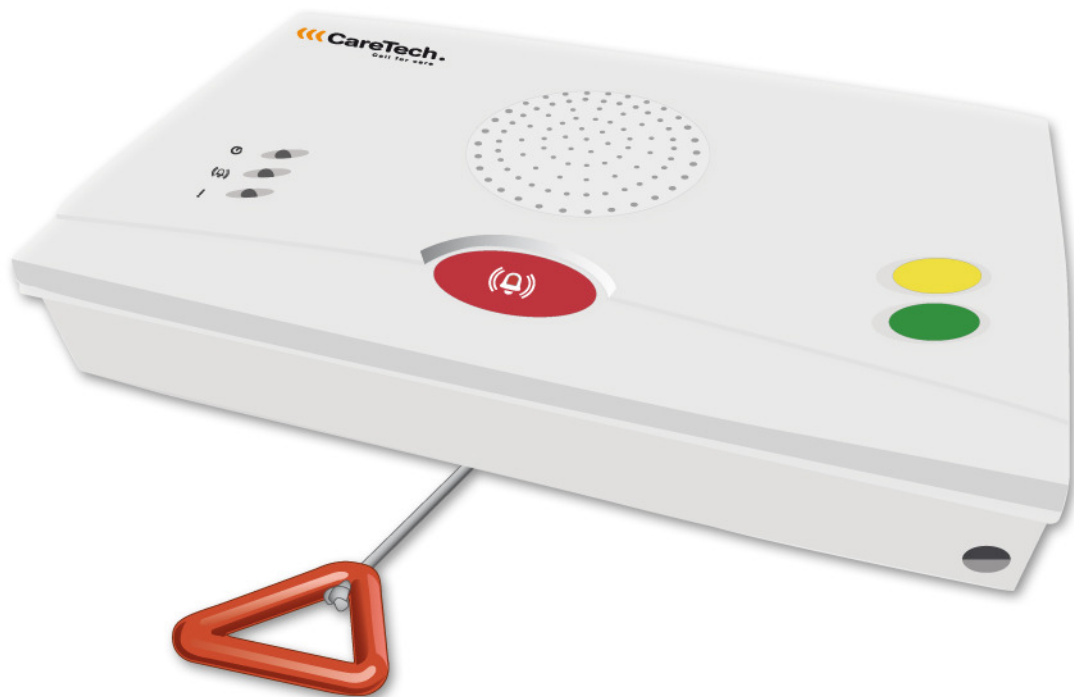


Grace+



User Guide

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Read first: Safety information

- The compartment covers on the reverse may be opened only by authorized persons in accordance with the instructions in the service manual.
- Battery replacement in the radio trigger may be performed only by authorized persons in accordance with the instructions in the service manual. Only use recommended battery type as stated in the service manual. CAUTION – Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- Installation must be performed only by authorized persons in accordance with the instructions in the service manual.



Always read and follow the safety information accompanied by this symbol

Important Information

All systems using radio and network communication are subject to interference beyond the user's control.

Products from CareTech are designed to minimise the impact of such interference. Nevertheless, the user must be aware that system components can be subjected to interference or other influences that may cause malfunction.

It is therefore important to regularly check that every part of the system works in all areas, especially radio communications. Contact your supplier immediately in case of any suspected malfunction.

Users should pay particular attention to the risk of disruption from products which communicate using the same or adjacent frequencies.

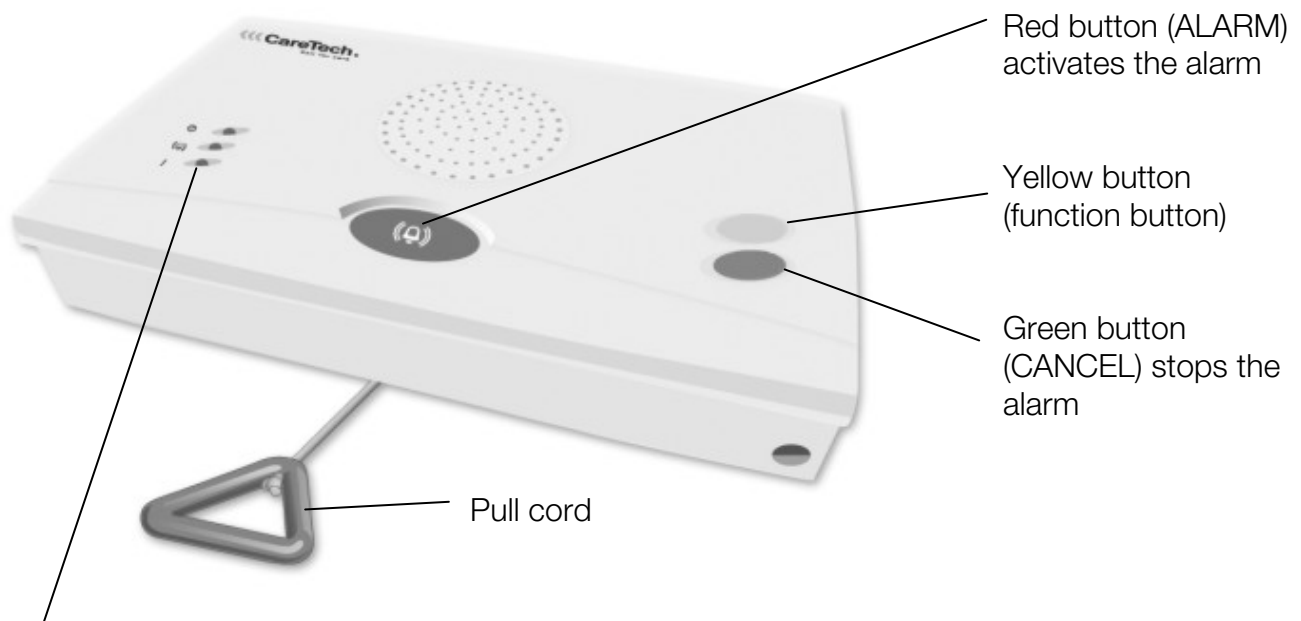
For further information, please contact your supplier or refer to the service manual or the documentation at www.caretech.eu

Package contents

- Grace telecare terminal
- Telephone lead
- User guide
- Elliot radio trigger with accessories
- I/O lead
- Back plate

Telecare terminal parts

There are three buttons on the front, with the following standard functions:



The following indicator lights can be found on the front of the telecare terminal:

On (Green) – normally lit during operation

Steady light: Indicates On state, receipt of radio signals on programming radio alarm.

Flashing light: Radio programming state.

Alarm (Red)

Slow flashing: Alarm.

Rapid flashing: Connection to alarm receiver on alarm.

Error (Red)

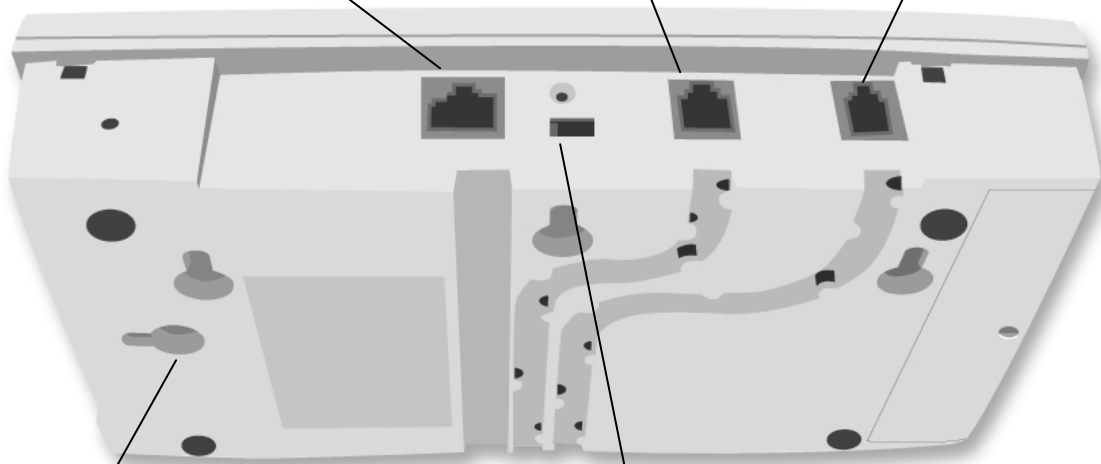
Rapid flashing: No connection to telephone line.

The following connectors can be found on the reverse of the carephone.

AUX: Power supply, wired inputs and output

TEL: Connection to telephone network

POWER: programming cable



Hole for wall mounting

ON/OFF: On and off switch



The compartment covers on the reverse may be opened only by authorized persons in accordance with the instructions in the service manual.

Description of functions

Grace+ is a practical, well-designed Telecare terminal that is ideal for use in sheltered accommodation with a central power supply and telephone exchange. The Elliot radio trigger is adapted for use with the Grace+ telecare terminal. Elliot can be worn using a wristband, neckband or pocket clip. The CareTech Easy Press Concept (EPC) accessory makes it easier for those with reduced physical strength to activate the alarm.

Activating the alarm

The assistance alarm can be activated with a radio trigger, pull cord or by pressing the red button on the telecare terminal. On activation, the telecare terminal calls an alarm receiver to summon help.

Other alarm types can be activated using accessories by radio, or by the wired inputs on the Telecare terminals AUX connector .

If an alarm is activated accidentally, it can be reset by pressing the green button on the telecare terminal.

Different types of alarm triggers

Nine radio transmitters can be programmed with the telecare terminal, e.g. a radio trigger, smoke detector, motion detector, etc.

Up to four wired triggers can be connected to the Telecare terminal's AUX connector, e.g. WC alarm, bed sensor, etc.

In the event of an alarm from a radio transmitter, the battery status of the radio transmitter is tested. The Elliot radio trigger has the option of automatic battery monitoring.

Alarm receivers

Up to six alarm receivers can be programmed. The alarm is identified using an alarm code which is programmed into the telecare terminal. An alarm placed to a private receiver is identified by a recorded voice ID. The person receiving the alarm can then speak directly with the person raising the alarm and take appropriate action.

Other functions

Additional functions can be activated or changed by programming – refer to the service manual or contact your supplier for further information.

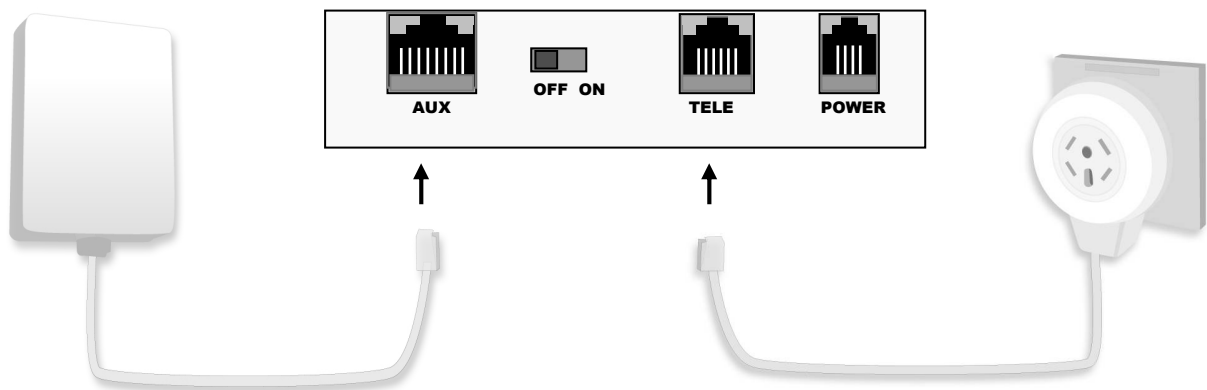
Installation

Connection

The telecare terminal is connected to the telephone network via the telephone lead/adaptor.

Central power supply and wired alarm triggers are connected to the AUX connector.

Normally the installation is made by a certified installer, for further assistance regarding installation please refer to the technical handbook or contact your supplier.



- Disconnect the existing telephone from the telephone jack and connect the telephone lead/adaptor to the jack. Connect the telephone lead to the TEL socket on the Telecare terminal.
- Connect the power supply and wired triggers to the AUX socket on the Telecare terminal.
- Turn the power switch to the ON position. Check that the “ON” indicator lamp has a steady green light.
- Connect the existing telephone to the intermediate plug. Lift the receiver and check that you can hear the tone.
- Carry out a test alarm from the carephone.



Installation must be performed only by authorized persons in accordance with the instructions in the service manual.

Programming

The telecare terminal's telephone numbers, alarm codes and settings are programmed via a computer, using the programming cable and the CareTech CS software.

For help with programming and information about other programming tools, please refer to the telecare terminal's service manual or contact your supplier.

In some cases, the telecare terminal can be delivered ready-programmed by the supplier.

Programming radio triggers

Up to nine radio triggers or other radio-alarm transmitters, e.g. smoke detectors, can be programmed for the telecare terminal.

Programming radio transmitters:

- Hold down the green button for approximately four seconds until the green "On" light starts to flash.
- Press the radio trigger. Once the telecare terminal has received the radio signal, you will hear a distinct tone signal.
- Confirm by pressing the red button on the telecare terminal.

Check radio coverage

This should always be done on installation.

- Hold down the green button for approximately four seconds until the green "On" light starts to flash.
- Press the radio trigger. The built-in speaker will produce a tone signal on successful reception. Repeat this in all areas where the alarm needs to operate.

Functional test

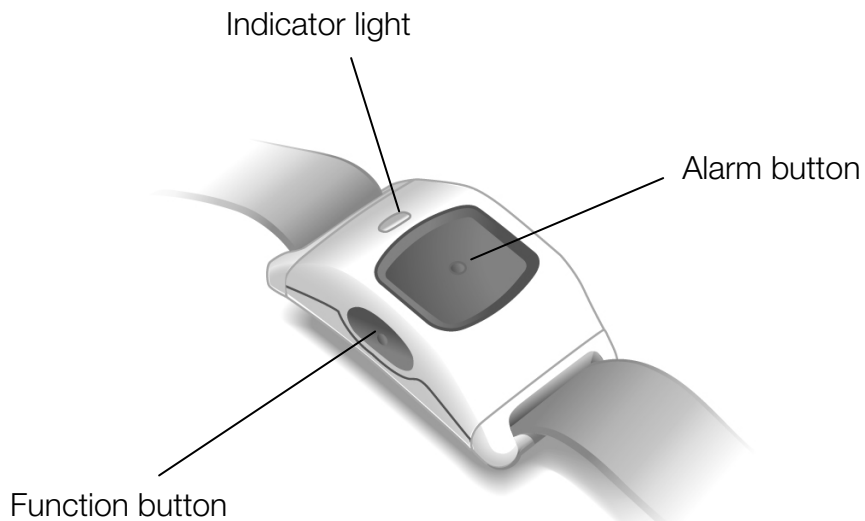
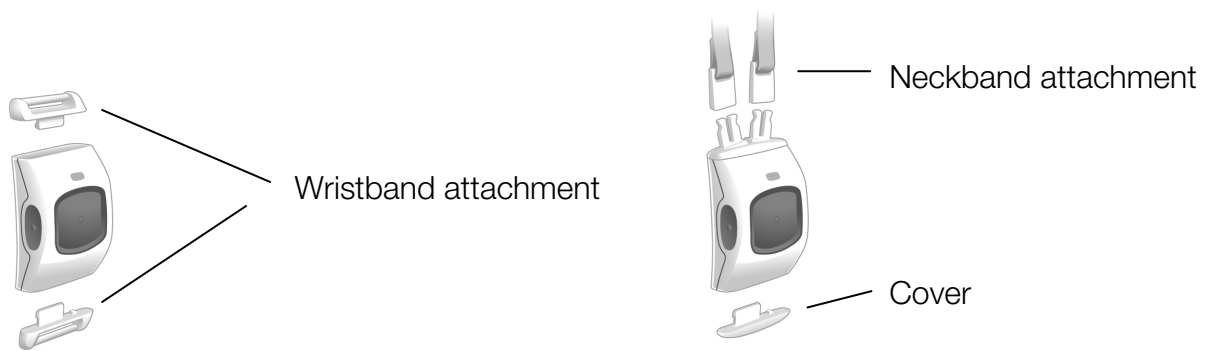
Always check the function after installation and programming. Test alarms shall be done regularly and in a way that secures the whole alarm chain from radio transmitter to alarm receiver.

Radio trigger Elliot

Radio trigger Elliot uses two-way radio communication; this means that when Grace+ receives an alarm from Elliot it will send an acknowledgement of the receipt. This is shown on Elliot by the indicator light that changes colour from red to green light. If Elliot doesn't get any acknowledgement the alarm will be repeated.

Elliot is equipped with two buttons that have programmable function

Accessories included: wristband, wristband attachment, neckband, pocket clip, "easy-press" accessory and cover. The accessories are attached to the alarm button with a simple click-in action.



General information

- If the telephone line is not working, no alarm can be sent.
- The carephone should be connected to the first telephone jack in the home.
- In order for an alarm to be sent, at least one alarm receiver/response centre needs to be programmed.
- The carephone must not come into contact with water or any other liquid.

Maintenance

Cleaning

The carephone and portable alarm button should be cleaned using a slightly damp cloth. Solvents should not be used when cleaning.

Replacing the radio trigger batteries

To replace the radio trigger batteries, please refer to the service manual or contact your supplier.



Battery replacement may be performed only by authorized persons in accordance with the instructions in service manual

Technical data

Telecare terminal

Dimensions:	121 x 214 x 36 mm (LxWxH)
Power supply:	12VDC central power supply
Inputs:	Four optoisolated
Output:	Relay output, potential-free make, max 2A
Communication:	Analogue telephone line
Radio frequency:	869.2125 MHz
Radio receiver class:	1*
Number of radio transmitters:	Up to 9

Grace+

Portable alarm button

Dimensions:	45 x 30 x 13 mm (LxWxH)
Battery:	3 V lithium battery CR2430
Battery life:	Up to five years
Water resistance:	Complies with IP67

Elliot

Equipment class: Class 1 radio equipment



Environment

This product is intended for indoor use in a normal residential environment.

Temperature:	Operating temperature +5°C to +35°C
Humidity:	0% to 75% relative humidity (non-condensed)
Environmental class:	1

*Refers to radio module "C1", type 9340.

Radio receiver parameters: Max. usable sensitivity: -113dBm; Average usable sensitivity: ver. 28,7dBuV/m, hor.27,0dBuV/m; Adjacent channel selectivity: -26,2dBm/-28,2dBm; Intermodulation rejection: -36dBm/-37dBm; Spurious response rejection: -30dBm; Blocking or desensitisation: >-16dBm

Grace+ can also be equipped with radio module type 9320, which allows maximum security and includes receipt of transmission, automatic transmission repeat, power control and frequency control. See order information for indicating which radio module the unit is equipped with.

C€ 0402

Hereby, CareTech AB, Kalix Sweden declare that this equipment is in compliance with the essential requirements and other provisions of R&TTE Directive 1999/5/EC.

The comprehensive declaration of conformity is available at the address: CareTech AB, Box 10030, SE-952 27 Kalix, Sweden.

Environmental information

This product complies with the requirements of the EU directives, 2002/96/EC (WEEE) and 2006/66/EG.

These directives regulate the product liability for electrical and battery recycling with the purpose of increasing recycling and minimising waste. The unit is marked with the "crossed out wheeled bin" logo, which indicates that it shall be handed in for recycling.



The product can be returned free of charge to a recycling station that is connected, directly or via a recycling system, to Care Tech or to your distributor. For detailed instructions, please check with your distributor or visit our website, www.caretech.se

Note! The WEEE information and recycling instructions applies to European Union member states only. For other countries please check local legislation or contact your distributor.

Manufactured in accordance with the EU directive, 2002/95/EC (RoHS)

The materials used in the radio trigger wristband and neckband meet the textile safety requirements of Oeko-Tex standard 100.

The information contained here is subject to change without notice. The only warranties for CareTech products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. CareTech shall not be liable for technical or editorial errors or omissions contained herein.



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