CT-DECT Conference (4)
CT-DECT Conference (8)
US-Version

Base Station for up to 4 CT-DECT Transmitter/Receiver Devices
Base Station for up to 8 CT-DECT Transmitter/Receiver Devices

Operating Instructions

Example

English

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Important Information for Users of the

CT-DECT transceivers

The CT-DECT transceiver modul has been tested for electromagnetic compatibility and is compliant with the european DECT-Standard.

CT-DECT transceivers that are not intrinsically safe (explosion-protected) and therefore do not have any special hazardous duty marking must never be used in potentially explosive atmospheres. Unprotected CT-DECT transceivers can trigger explosions unintentionally in these areas.

CeoTronics does not assume any liability for damage to property and personal injuries of any kind that can arise through the above mentioned or any other incorrect use of the CT-DECT transceivers.

Important Notes for operation of the CT-DECT System in the USA

Please note that any changes or modifications not expressly approved by the party responsible for compliance will void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment
generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

. Reorient or relocate the receiving antenna.
. Increase the separation between the equipment and receiver.
. Connect the equipment into an outlet on a circuit different from that to which the receiver is
   connected.
. Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter .

1. Important safety instructions

For the use of the device notice the national safety and accident prevention regulations and the following safety instructions shown in italics in this instruction manual.

- *Before using CeoTronics products read completely the appropriate operating instructions. If in doubt, ask our technical staff.*

- *If repair work of any kind needs to be done to CeoTronics products, arrange for it to be performed only by the company CeoTronics or by a specialized workshop that is authorized by CeoTronics. In all other cases our warranty and liability for the product shall lapse.*

- *Do not store CeoTronics products outside or in damp ambient conditions. At all times keep them clean, dry and at normal air humidity. CeoTronics products must not be stored in areas with a temperature of over +80°C (+176°F), e.g. in the summertime on the parcel shelf of a car. If not stated otherwise, the following temperature ranges are allowed for CeoTronics products: -10 to +55°C (+14 to +131°F) for operation, -40 to +80°C (-40 to +176°F) for storage.*

- *Do not immerse a CeoTronics product into water, if it is not expressly specified for this purpose.*

- *When using CeoTronics products that are equipped with connection leads ensure that the latter do not get caught up in operational machinery or wheels!*

- *CeoTronics products that are not intrinsically safe (explosion-proof) and therefore have no special explosion-proof designation must never be operated in potentially explosive environments (e.g. when refuelling cars, aircraft etc.). Devices that are not explosion-proof can unintentionally trigger off explosions in such areas!*

- *Connect CeoTronics accessories to a device or disconnect them from a device only when the device is switched off.*

- *If you are a cardiac pacemaker carrier, before operating a transmitter/receiver ask the manufacturer of your cardiac pacemaker for information about any impairment that might be caused due to high frequencies.*

- *When on board an airplane always keep a transmitter/receiver switched off. Operation of the transmitter/receiver could affect the safety of the airplane and it is therefore prohibited. Never operate electronic devices on board an airplane without the express approval of an authorized member of the cabin crew.*

- *Do not leave CeoTronics products lying around loose in cars, e.g. on the parcel shelf. Stow these products in a suitable, safe place in the car so that they do not present a danger to you or to other occupants of the car, if emergency braking is effected.*

- *When driving a car, do not use the radio because it may distract you from the other traffic. Never use a CeoTronics product that will impair your hearing.*

- *Keep CeoTronics products out of the reach of children and any other persons who are not familiar with the handling and operation thereof.*

- *Packaging materials, e.g. filling materials and plastic bags are not toys and have to be kept out of the reach of children. There is a risk of children ingesting them and choking !*

- *Safe operation requires clean devices. Ensure that the devices are clean and in good condition at all times.*

- *CeoTronics products may only be used for the specific application envisaged.*

- *Should equipment, supplied by CeoTronics, be definitely put out of service you may return it to CeoTronics. We ensure recycling and/or disposal of outdated equipment in compliance with the applicable environment protection law.*

- *Keep these operating instructions for later use.*

The device is not conceived for the usage in the external area. If the device is to be used nevertheless in the external area, then it must be protected by suitable measures from influences of the weather.

2. Description

2.1 Overview

Fig. 1 Example, Control elements, indication elements, connection elements
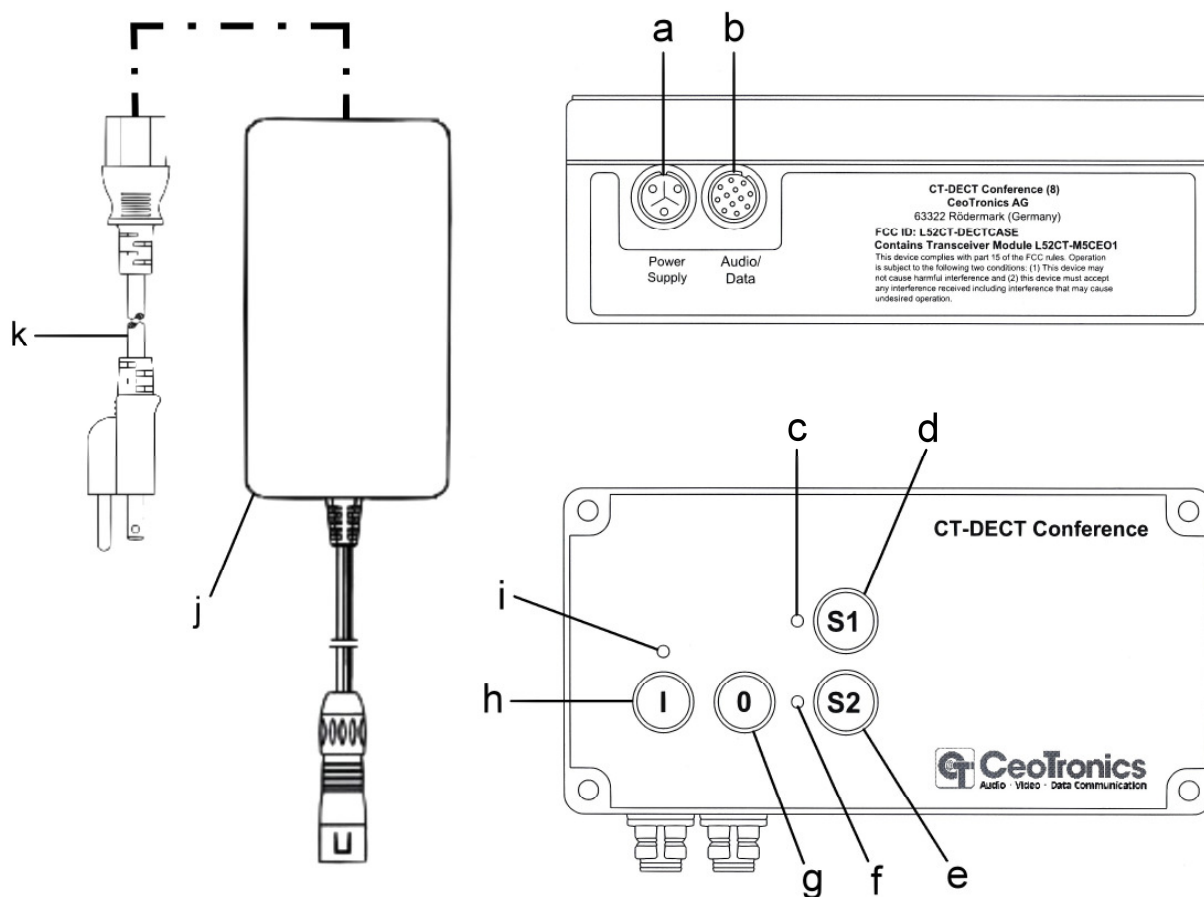
a   3-pole jack »Power Supply«
    Connector for power supply unit 12 V DC
b   12-pole jack »Audio/Data« for connection of the audio/data line to another communication device
c   Green control lamp (LED), for subscription button »S1«
d   Subscription button »S1« for a max. of four CT-DECT transmitter/receiver units standard (group 1)
e   Subscription button »S2« for a max. of four CT-DECT transmitter/receiver units standard
    (group 2), **by CT-DECT Conference (4) without function**
f   Green control lamp (LED), for subscription button »S2«, **by CT-DECT Conference (4) only
    flashing function if subscription button »S2« is inadvertently pressed**
g   Button »0« : Off
h   Button »I« : On
i   Red control lamp (LED), illuminates when the base station is switched on
j   Power supply unit
k   Power cord

2.2 Purpose

The base station CT-DECT Conference (4) or (8) is part of a duplex communication system over short distances for four or eight mobile users. It is the central unit for up to four or eight mobile CT-DECT transmitter/receiver units standard, e.g. CT-DECT headsets standard and CT-DECT Multi standard, and can connected via an adapter cable to another communication device.

Attention: Only connect adapter cables with a round housing to base station, as represented in figure 2.

Fig. 2
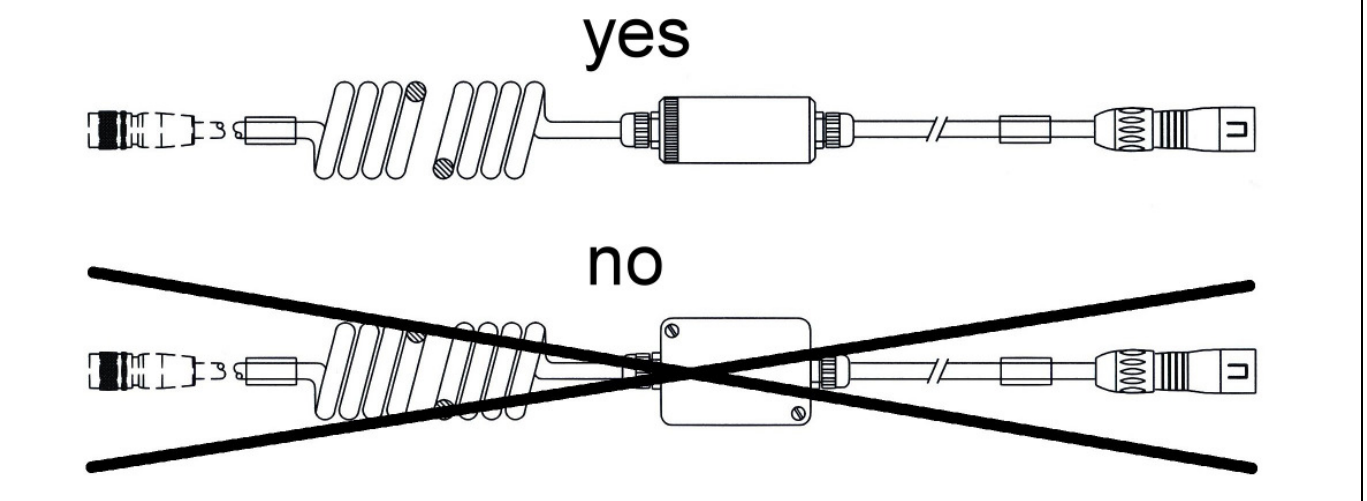
The base station CT-DECT Conference (4) is equipped with one transceiver module and two subscription buttons »S1« and »S2« **(subscription button »S2« without function)**, and is able to control max. four CT-DECT units standard. Four CT-DECT units standard are allocated to the transceiver module, and one subscription button.

The base station CT-DECT Conference (8) is equipped with two transceiver modules and two subscription buttons »S1« and »S2«, and is able to control max. eight CT-DECT units standard. In each case four CT-DECT units standard (group 1 and 2) are allocated to one transceiver module and one subscription button.

The range between the base station and the CT-DECT units standard depends on the local circumstances. High protection against eavesdropping and interference is ensured.

The base station realizes the following connections:

– wireless radio connection to max. four, or eight CT-DECT units standard
– connection via a cable to a communication device for audio and data traffic

The power supply for the base station is supplied from a power supply unit 12 V DC, that is delivered with the base station.

2.3 Pin assignment of connectors

2.3.1 12-pole jack »Audio/Data« (standard pin assignment)

Pin	Description	Pin	Description
1	Control output	7	Not connected
2	Not connected	8	$\perp$ (GND)
3	Audio input (200 mV_{rms} at 600 Ω)	9	Not connected
4	Audio input (200 mV_{rms} at 600 Ω)	10	Not connected
5	Audio output (200 mV_{rms} at 600 Ω)	11	Not connected
6	Audio output (200 mV_{rms} at 600 Ω)	12	Not connected

2.3.2 3-pole jack »Power Supply«

Pin	Description
1	$+U_b$ (12 – 30 V DC)
2	$\perp$ (GND)
3	Not connected

2.4 Dimensions
160 x 94 x 71 mm (6.3 x 3.7 x 2.8 in.) (width x depth x height)

3. Commissioning and operation

3.1 Handling of plug connections with retaining ring
The plugs of the connecting cables have a retaining ring (Fig. 3). Fig. 3 to 5 show examples.

Make the plug connection: pull the retaining ring on the plug back and then make the plug connection (Fig. 4). Push the retaining ring forward to secure the plug connection (Fig. 5).

Undo the plug connection: pull the retaining ring on the plug back (Fig. 4). Then pull off the plug from the jack.

Fig. 3   *Fig. 4*   *Fig. 5*
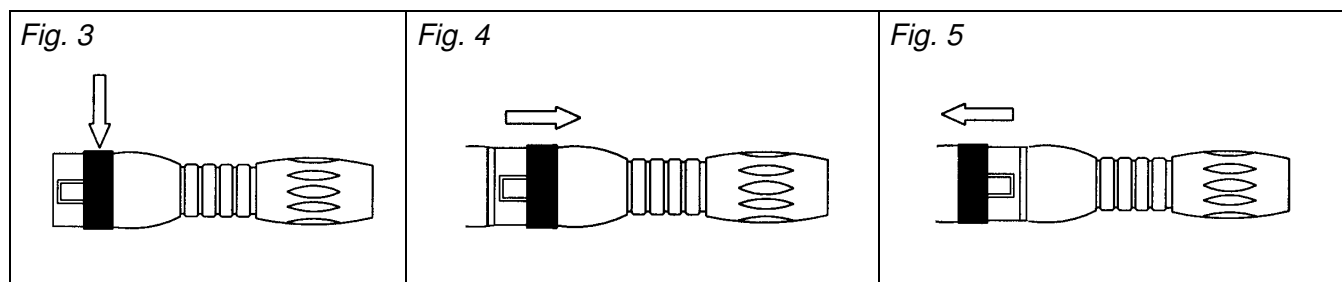
3.2 Connecting and switching on the base station CT-DECT Conference (4) or (8)

a. Ensure that the base station is switch off. Press short the button »0« (Fig. 1/g) to switch off the base station. The control lamp (Fig. 1/i) may not illuminate.

b. **Connecting the power supply unit 12 V DC**

Connect the power supply unit 12 V DC (Fig. 1/j), to the 3-pole jack »Power Supply« on the base station. Use only this power supply unit since a faultless function is guaranteed only with this power supply unit. If you do not have any fitting power cord, ask our product adviser. Follow the special CeoTronics operating instructions for putting into operation of the power supply unit. For the present let the base station switched off.

c. **Audio/data connection**

   ➔ **NOTE**
   Only valid if the CT-DECT system is used in conjunction with another communication device.

   Connect the base station via the 12-pole jack »Audio/Data« to the communication device.

d. **Switching on the base station**

   Connect the power supply unit to a properly installed live electrical mains socket.

   Press short the button »I« (Fig. 1/h) to switch on the base station. The control lamp (Fig. 1/i) on the base station illuminates.

3.3   Switching on the CT-DECT units standard

Switch on the CT-DECT unit standard (e.g. a CT-DECT headset or a CT-DECT Multi in conjunction with a CT communication set).

After switching on a high beep tone is audible in the CT-DECT unit, resp. the communication set for the CT-DECT unit. Subsequently the synchronization procedure between the CT-DECT unit and the base station begins. The time a synchronization procedure can last is varying. Upon completion of synchronization a high double-beep tone is audible in the CT-DECT unit, resp. the communication set. Finally a high single-beep tone indicates the connection setup. Now the CT-DECT unit is ready for communication.

4.   Safekeeping – storage

Store the cleaned devices in a clean, dry place at normal room temperature and in normal relative air humidity.

5.   Maintenance

5.1   Visual inspections

Regularly examine the device and in particular the cables and connectors for signs of fractures, cracks and wear. Send defective devices to CeoTronics for repair.

5.2   Cleaning

⚠ WARNING

When cleaning ensure that no moisture penetrates inside the device. Do not use any solvents (e.g. benzine, alcohol, etc.) for cleaning purposes!

Remove any loose dust with a soft brush. Clean, if necessary, the outside of the devices with a suitable clean cloth that has been slightly moistened with clear water, and rub the parts dry afterwards. If heavily soiled, some dishwashing liquid can be used in addition.

Clean the contacts of connectors with a commonly available contact cleaning agent.

6. On-air subscription of base station CT-DECT Conference (4) or (8) and CT-DECT units standard

6.1 General

➔ NOTE

- *Normally, the subscription of CT-DECT standard devices (PP) to a CT-DECT base station (FP) is only necessary when a CT-DECT system is set into operation for the first time or when individual CT-DECT devices are exchanged, e.g. after repairs.*

- *A CT-DECT standard device (PP) can be subscribed only to one CT-DECT base station (FP), never to two or more stations simultaneously.*

- *Depending on the scope of supply, the CT-DECT devices may have already been subscribed to each other by CeoTronics during the final QA inspection in factory. In that case an information slip is attached.*

  If various CT-DECT base stations (FP) are being delivered, then the CT-DECT standard devices carry a marking indicating their allocation to a particular CT-DECT base station (FP).

- *It is not possible to subscribe two or more CT-DECT standard devices (PP) simultaneously to one CT-DECT base station (FP), only one by one.*

  In case of various CT-DECT standard devices (PP) it is recommended to subscribe immediately <u>all</u> the devices of a group, one after the other, to the CT-DECT base station (FP), as otherwise a subscribed device could accidentally be deleted (see Principle of subscription "Fig 6").

- *Comply with the instruction step sequence.*

- *All newly subscribed devices must be switched off again once the subscription is completed.*

The on-air subscription procedure is performed on the base station and the CT-DECT devices standard manually by means of operating elements. The base station is the device the CT-DECT standard devices are to be subscribed to.

The base station CT-DECT Conference (4) is equipped with a transceiver module and the two subscription buttons »S1« and »S2« (Subscription button »S2« without function) and is able to control max. four CT-DECT devices standard. Four CT-DECT devices standard are allocated to the transceiver module, and one subscription button.

The base station CT-DECT Conference (8) is equipped with two transceiver modules and the two subscription buttons »S1« and »S2« and is able to control max. eight CT-DECT devices standard. In each case up to four CT-DECT devices standard are allocated to one transceiver module and one subscription button.

The CT-DECT devices standard that are controlled by the two transceiver modules can be marked in two groups of four with 1 and 2. With it the allocation of the CT-DECT devices standard to the both transceiver modules and to the subscription buttons »S1« and »S2« is ensured.

The allocation is as follows:

CT-DECT Conference (4)

- For subscription max. four CT-DECT devices standard are allocated to the transceiver module and to the subscription button »S1«. The subscription of the max. four CT-DECT devices standard to the base station is carried out in groups but always one CT-DECT device standard after the other.

  If a <u>fifth</u> CT-DECT device standard would be subscribed to the transceiver module in the base station, the CT-DECT device standard that was subscribed in first would be deleted from the data memory of the base station (see example Fig. 6).

CT-DECT Conference (8)

- For subscription max. four CT-DECT devices standard are allocated to the transceiver module 1 and to the subscription button »S1«. The subscription of the max. four CT-DECT devices standard to the base station is carried out in groups but always one CT-DECT device standard after the other.

  If a fifth CT-DECT device standard would be subscribed to the transceiver module 1 in the base station, the CT-DECT device standard of group 1 that was subscribed in first would be deleted from the data memory of the base station (see example Fig. 6).

- For subscription max. four CT-DECT devices standard are allocated to the transceiver module 2 and to the subscription button »S2«. The subscription of the max. four CT-DECT devices standard to the base station is carried out in groups but always one CT-DECT device standard after the other.

  If a fifth CT-DECT device standard would be subscribed to the transceiver module 2 in the base station, the CT-DECT device standard of group 2 that was subscribed in first would be deleted from the data memory of the base station (see example Fig. 6).

Fig. 6 Principle of subscription (example)
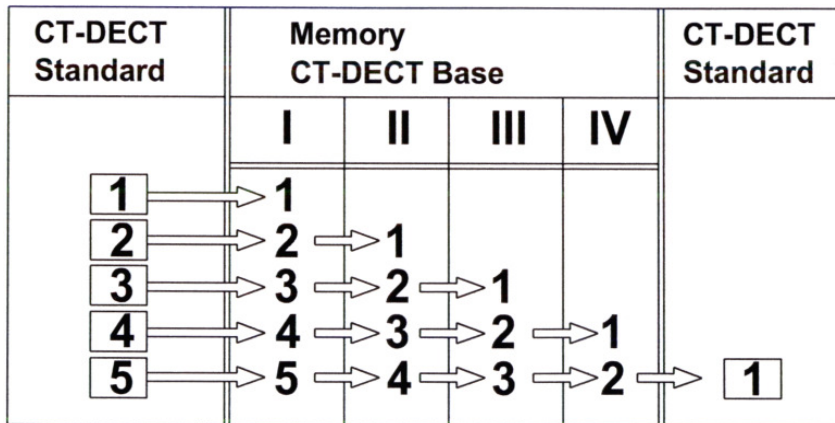
A CT-DECT device standard that is deleted from the data memory of the base station cannot communicate any longer with the CT-DECT system. In this case the CT-DECT device standard has to be subscribed again to the base station according to the subscription procedure.

Time Out

If no successful subscription between a standard device and the base device was achieved after maximally 2 minutes, a »Time Out« occurs. The »Time Out« effects that in the base station the available data for the max. four stored CT-DECT devices standard of a group and in the case of the CT-DECT device standard the available data for the stored base station are deleted.

After a »Time Out«, by group 1, the control lamp (Fig. 1/c) is flashing.
After a »Time Out«, by group 2, the control lamp (Fig. 1/f) is flashing.
After a »Time Out« all CT-DECT devices standard of a group have to be subscribed again to the base station.

6.2   Preliminary works

a. Switch off all CT-DECT devices.
b. Connect the power supply device 12 V DC, to the 3-pole jack »Power Supply« on the base station.
   To make and undo a plug connection at the base station see section 3.1.
c. Connect the power supply device to a properly installed live electrical mains socket. For the present let the base station switched off.
d. Operating elements on the CT-DECT device standard for subscription see the special CeoTronics operating instructions for this CT-DECT device.

6.3 On-air subscription to CT-DECT Conference (4)

In the following by way of an example the subscription of a CT-DECT device standard with subscription button »S1« to the base station is described. The subscription of the other CT-DECT devices standard is analogous.

6.3.1 On-air subscription of a CT-DECT device standard with subscription button »S1«

a. Press short the button »I« (Fig. 1/h) to switch on the base station. The red control lamp (Fig. 1/i) on the base station illuminates.

Ensure that all CT-DECT devices standard are switched off.

b. On the base station press the subscription button »S1« (Fig. 1/d), keep the subscription button pressed for at least 5 seconds. The green control lamp (Fig. 1/c) illuminates. Then let the button off. Immediately carry out step »c«, otherwise a »Time Out« may occur. **Attention! The subscription procedure can be interrupted, when you press short the subscription button »S1« (Fig. 1/d).**

   Please note:

   For the »S2« subscription button there is no subscription function allocated in the base station. Should you have accidentally pressed the »S2« button, the control lamp (figure 1/f) flashes to signal the non-existence of a subscription function until you let the subscription button go.

c. On the CT-DECT device standard press the subscription button, keep the subscription button pressed, and then switch on the CT-DECT device standard. After switching on keep the subscription button pressed, **like in the respective operating instruction for CT-DECT device standard described**, and then release the subscription button.

   The on-air subscription is started and via the CT-DECT device standard, respectively the communication set of the CT-DECT device standard, a short high beep tone is audible periodically every 2 seconds. A high double-beep tone finally signalizes that the on-air subscription has been successful completed. The control lamp (Fig. 1/c) of the base station goes out, and confirm the successful subscription procedure. If no successful subscription was achieved after maximally 2 minutes, a tone sequence **(see respective operating instruction for CT-DECT device standard)** signalize an incorrect subscription in the CT communication set. In this case, the control lamp (Fig. 1/c) of the base station is flashing. Then, press short the subscription button »S1« (Fig. 1/d), to clear the internal store of the base station. Switch off the subscribed CT-DECT device standard, and restart the subscription procedure again.

d. **After the on-air subscription switch off the subscribed CT-DECT device standard.**

6.4 On-air subscription to CT-DECT Conference (8)

In the following by way of an example the subscription of a CT-DECT device standard of group 1 with subscription button »S1« and of group 2 with subscription button »S2« to the base station is described. The subscription of the other CT-DECT devices standard of group 1 and group 2 is analogous.

6.4.1 On-air subscription of a CT-DECT device standard of group 1 with subscription button »S1«

a. Press short the button »I« (Fig. 1/h) to switch on the base station. The red control lamp (Fig. 1/i) on the base station illuminates.

Ensure that all CT-DECT devices standard are switched off.

b. On the base station press the subscription button »S1« (Fig. 1/d), keep the subscription button pressed for at least 5 seconds. The green control lamp (Fig. 1/c) illuminates. Then let the button off. Immediately carry out step »c«, otherwise a »Time Out« may occur. **Attention! The subscription procedure can be interrupted, when you press short the subscription button »S1« (Fig. 1/d).**

c. On the CT-DECT device standard press the subscription button, keep the subscription button pressed, and then switch on the CT-DECT device standard. After switching on keep the subscription

button pressed, **like in the respective operating instruction for CT-DECT device standard described**, and then release the subscription button.

The on-air subscription is started and via the CT-DECT device standard, respectively the communication set of the CT-DECT device standard, a short high beep tone is audible periodically every 2 seconds. A high double-beep tone finally signalizes that the on-air subscription has been successful completed. The control lamp (Fig. 1/c) of the base station goes out, and confirm the successful subscription procedure. If no successful subscription was achieved after maximally 2 minutes, a tone sequence **(see respective operating instruction for CT-DECT device standard)** signalize an incorrect subscription in the CT communication set. In this case, the control lamp (Fig. 1/c) of the base station is flashing. Then, press short the subscription button »S1« (Fig. 1/d), to clear the internal store of the base station. Switch off the subscribed CT-DECT device standard, and restart the subscription procedure again.

d. **After the on-air subscription switch off the subscribed CT-DECT device standard.**

6.4.2 On-air subscription of a CT-DECT device standard of group 2 with subscription button »S2«

a. Press short the button »I« (Fig. 1/h) to switch on the base station. The red control lamp (Fig. 1/i) on the base station illuminates.

Ensure that all CT-DECT devices standard are switched off.

b. On the base station press the subscription button »S2« (Fig. 1/e), keep the subscription button pressed for at least 5 seconds. The green control lamp (Fig. 1/f) illuminates. Then let the button off. Immediately carry out step »c«, otherwise a »Time Out« may occur. **Attention! The subscription procedure can be interrupted, when you press short the subscription button »S2« (Fig. 1/e).**

c. On the CT-DECT device standard press the subscription button, keep the subscription button pressed, and then switch on the CT-DECT device standard. After switching on keep the subscription button pressed, **like in the respective operating instruction for CT-DECT device standard described**, and then release the subscription button.

The on-air subscription is started and via the CT-DECT device standard, respectively the communication set of the CT-DECT device standard, a short high beep tone is audible periodically every 2 seconds. A high double-beep tone finally signalizes that the on-air subscription has been successful completed. The control lamp (Fig. 1/f) of the base station goes out, and confirm the successful subscription procedure. If no successful subscription was achieved after maximally 2 minutes, a tone sequence **(see respective operating instruction for CT-DECT device standard)** signalize an incorrect subscription in the CT communication set. In this case, the control lamp (Fig. 1/f) of the base station is flashing. Then, press short the subscription button »S2« (Fig. 1/e), to clear the internal store of the base station. Switch off the subscribed CT-DECT device standard, and restart the subscription procedure again.

d. **After the on-air subscription switch off the subscribed CT-DECT device standard.**

6.5   After the subscription

After subscription the CT-DECT devices standard have to be switched off again, before the DECT system is put into operation. ***The base station may switched on after subscription.***

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