6. SECA 360° WIRELESS NETWORK

6.1 Introduction

This device is equipped with a wireless module. The wireless module allows measured results to be transmitted wirelessly for analysis and documentation. Data can be transmitted to the following equipment devices:

- seca wireless printer
- PC with seca USB wireless module

seca wireless groups

The **seca 360° wireless** network operates with wireless groups. A wireless group is a virtual group of transmitters and receivers. If you wish to operate several transmitters and receivers of the same type, up to 3 wireless groups (0, 1, 2) can be set up with this device.

The set-up of several wireless groups ensures the reliable transmission of measured values with the correct address when using more than one examination room each with similar equipment.

The maximum distance between transmitters and receivers is approx. 10 metres. This range may be reduced under certain local conditions, e.g. thickness and type of wall partitions.

The following combination of devices is possible per wireless group:

- 1 set of baby scales
- 1 set of personal scales
- 1 length measuring device
- 1 seca wireless printer
- 1 PC with seca USB wireless module
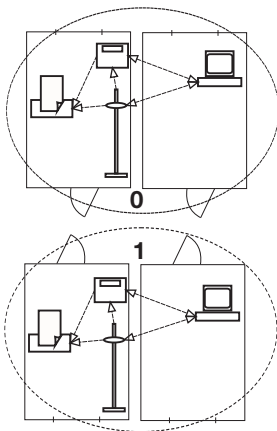
Channels

The devices communicate with each other within each wireless group via three channels (C1, C2, C3). This ensures reliable, troublefree data transmission.

When you set up a wireless group with the scales, the device will suggest three channels guaranteeing optimum data transmission. We recommend accepting the channel numbers suggested.

You can also select the channel numbers (0 - 99) manually, for example if you want to set up more than one wireless group.
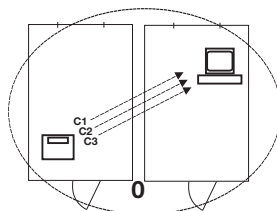
The channels must be sufficiently far apart to ensure troublefree data transmission. We recommend a spacing of at least 30. Each channel number may only be used for one channel.

Example of configuration; channel numbers when setting up 3 wireless groups within one surgery:

- Wireless group 0: C1=_0, C2= 30, C3=60
- Wireless group 1: C1=10, C2=40, C3=70
- Wireless group 2: C1=20, C2=50, C3=80

Detection of equipment devices

If you wish to set up a wireless group with the scales, they will search for other active devices from the **seca 360° wireless** system. The devices detected are shown as modules in the display on the scales (e.g. MO 3). The meaning of the numbers is as follows:

- 1: Personal scales
- 2: Length measuring device
- 3: Wireless printer
- 4: PC with seca USB wireless module
- 7: Baby scales
- 5, 6 and 8-12: Reserved for system expansion

6.2 Operate scales in a wireless group (menu)

All functions required to operate the device in a seca wireless group can be found in the submenu "rF". Information how to navigate in the menu can be found on page 48.
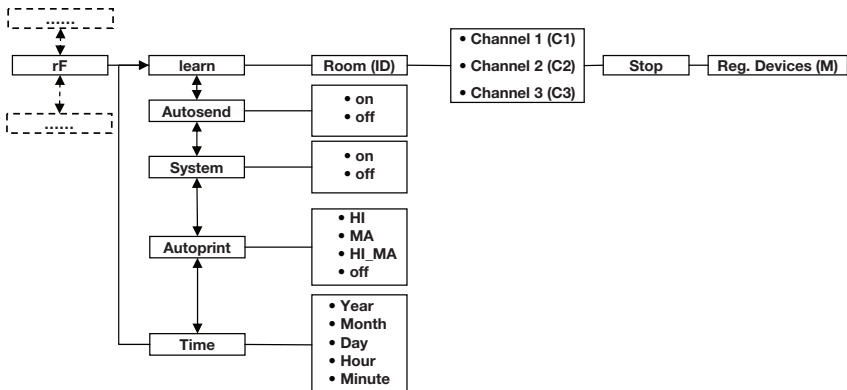
Activate wireless module (SYS)

The device is supplied with the wireless module disabled. It has to be activated before you can set up a wireless group.

> **NOTE:**
> When the wireless module is activated, the power consumption of the device will increase. We recommend using a power supply unit when operating the device in a wireless network.

1. Switch the device on.

```
SYS
```

2. Select the menu item "SYS" in the "rf" submenu.
3. Confirm the selection.

```
On
```

4. Select "on".
5. Confirm the selection.
   You will leave the menu automatically.

Set up wireless group (Lrn)

To set up a wireless group proceed as follows:

1. Switch the device on.
2. Call up the menu.

```
rF
```

3. Select the item "rF" in the menu.
4. Confirm the selection.

```
Lrn
```

5. Select the menu item "lrn" (learn) in the "rf" submenu.
6. Confirm the selection.
   The wireless group currently selected (here: wireless group 0 "ID 0") is displayed.

```
Id 0
```

   If the wireless group "0" already exists and you wish to set up another wireless group with this device, use the arrow keys to select another ID (here: wireless group 1 "ID 1").

```
Id 1
```

7. Confirm your selection for the wireless group.
   The device will suggest a channel number for channel 1 (here C1 "0").

```
C1 0
```

   You can either accept the channel number suggested or select another channel number using the arrow keys.

8. Confirm your selection for channel 1.
   The device will suggest a channel number for channel 2 (here C2 "30").

```
C230
```

   You can either accept the channel number suggested or select another channel number using the arrow keys.

NOTE:

Two-digit channel numbers are displayed without a space. The display "C230" means: channel "2", channel number "30".

9. Confirm your selection for channel 2.

`[ 360`

The device will suggest a channel number for channel 3 (here C3 "60").

You can either accept the channel number suggested or select another channel number using the arrow keys.

10. Confirm your selection for channel 3.

`StOP`

The message **StOP** appears in the display.

The device is waiting for signals from other equipment devices with radio transmission capability within its range.

NOTE:

With certain devices a special switch-on procedure has to be followed if they are to be integrated in a wireless group. Consult the user manual for each device.

11. Switch on the equipment device you wish to integrate in the wireless group, e.g. wireless printer.

A beep will be heard when the wireless printer is detected.

NOTE:

Once you have integrated a wireless printer in the wireless group, you should immediately configure the printer (menu\rf\APrt) and set the time (menu\rf\time).

12. Repeat step 11. for all equipment devices you wish to integrate in the wireless group.

13. Press the Enter key to end the search.

14. Press one of the arrow keys to see which devices have been detected (here: Mo 3 for a wireless printer).

`nO 3`

Once you have integrated several devices in the wireless group, press the arrow keys several times to check that all equipment has been detected by the scales.

15. Press the Enter key to leave the menu or wait until you leave the menu automatically.

Activate automatic transmission (ASend)

You can configure the device so that the measured results are automatically transmitted to all receivers that are ready to receive and logged into the same wireless group (e.g.: wireless printer, PC with USB wireless module).

> **NOTE:**
> If you are using a wireless printer, check that the Autoprint function is not switched off (off) (see "Configure seca wireless printer (APrt)" on page 57).

| RSEnd |

1. Switch the device on.

2. Select the menu item "ASend" in the "rf" submenu and confirm your selection.

| On |

3. Select "on" and confirm your selection.
   You will leave the menu automatically.

Configure seca wireless printer (APrt)

You can configure the device so that measured results are automatically printed out by a wireless printer logged into the wireless group.

> **NOTE:**
> This function is only available if the "learn" function has been used to integrate a seca wireless printer in the wireless group.

1. Switch the device on.

| RPrt |

2. Select the menu item "APrt" in the "rf" submenu and confirm your selection.

3. Make the appropriate selection for your combination of devices:

| NR |

   – HI: Measured results from length measuring devices
   – MA: Measured results from scales
   – HI_MA: Measured results from length measuring devices and scales
   – off: No automatic printout, printout only if Enter key is held down during weighing.

4. Confirm your selection.
   You will leave the menu automatically.

Set time (Time)

You can configure the system so that the wireless printer automatically adds the date and time to the measured results. To do so, you have to set the date and time once on the device and transmit this to the wireless printer's internal clock.

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t ᴵᴵᴫᴱ
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1. Switch the device on.

2. Select the menu item "Time" in the "rf" submenu.

3. Confirm the selection.
   The current selection for the year (Year) is displayed.

```
YEA ᴵᴰ
```

4. Select the correct year.

5. Confirm the selection.

6. Repeat steps 3. and 4. as appropriate for the month (ᴵᴸon), day (dAY), hour (hour) and minute (ᴵᴸ ᴵn).

7. Confirm your selection each time.
   After confirming your selection for Minute you will leave the menu automatically.
   These selections will be automatically transmitted to the wireless printer.
   The wireless printer automatically adds the date and time to every printout.

NOTE:
For further operation of the wireless printer see its user manual.

7. CLEANING

To clean the covering and housing use a household detergent or standard disinfectant as required. Take note of the instructions provided by the manufacturer.

Do not use scouring or caustic cleaning products, spirit, petrol or similar substances for cleaning under any circumstances. Such products may damage the high-quality finishes.

8. WHAT TO DO IF …?

Malfunction	Cause/Remedy

… no weight is displayed during weighing?	The scales are not connected to the power supply
	   - Check the scales are switched on
	   - Check batteries are inserted

FOR USA AND CANADA:

seca
seca 703

FCC

FCC ID: X6T172A01

IC: 8898A-172A01

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.
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 device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

- This device may not cause harmful interference.

- This device must accept any interference received, including interference that may cause undesired operation.

NOTE:
Changes or modifications made to this equipment not expressly approved by seca may void the FCC authorization to operate this equipment.

NOTE:
Radiofrequency radiation exposure Information: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 1 m between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.