

## **Anleitung für Montage und Betrieb**

Funkcodetaster FCT 10

## **Installation and operating instructions**

FCT 10 Code Modulator

## **Notice de montage et d'installation**

Clavier de codage FCT 10

## **Handleiding voor montage en bediening**

Telecoderingsschakelaar FCT 10

## **Istruzioni per il montaggio e l'uso**

Tastiera a radiocodice FCT 10

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## **Bruksanvisning för montering och drift**

Kodlås FCT 10

## **Instrukcja montażu i użytkowania**

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## **Szerelési és működtetési útmutató**

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## **1 General**

The FCT 10 Code Modulator is a combination of a hand transmitter and a digital coder and apart from the receivers which for the main part are already available does not require any additional equipment.

**Note:**

Before installing the FCT 10, check out the location where you wish to install it in order to ensure that the radio signal can be received by the receivers.

**868 MHz:** GSM 900 mobile phones used at the same time may influence the range of the radio remote control.

The FCT 10 is powered by a proprietary 9V block battery. Successful entries and alterations are stored and retained even in the event of a voltage loss. With ten freely selectable 2 to 6-digit access codes just as many functions can be activated by radio signal; i.e. with an FCT 10 it is possible to actuate by radio signal and impulse, for example, up to ten door operators. In addition, a direct function - not protected by an access code - is available, with which, for example, and also by radio signal (together with a corresponding receiver) a bell or outdoor lighting can be operated.

## **2 Installation** (see figure 1)

## **3 Important terminology**

### **Start-up code (IB code)**

This is an 8-digit number code which is required in order to protect the unit against unauthorized programming (→ theft protection). Only using this 8-digit number code can the access codes be entered, altered or deleted. In addition, entry of this code is also required after inserting the battery (e.g. when starting up) or on changing the battery in order to activate the unit's functions (→ theft protection). In the ex factory state this code is preset with "12345678". The user should replace this preset code with his own personal IB code to ensure that no-one else can gain access to the programming and hence the functions of the unit. If the personal IB code gets lost, then the unit can only be made to work again by undergoing a so called factory reset in the factory, after which the unit is returned to the ex factory state.

## Access codes

These are 2 to 6-digit freely selectable number codes, with which access can be gained to the ten radio code locations (numbered from 0 to 9), whereby an access code is always assigned a specific radio code location. In the ex-factory state or after the factory reset the storage spaces for the access codes are either empty or deleted so that no enterable code matches them.

## Radio code location

This is a location for a radio code, which as with the hand transmitters can be transmitted, learned or recoded and reset to the factory coding. In addition to the ten radio code locations (numbered from 0 to 9) which can be accessed using the access codes, there is a further radio code location which can be directly accessed without using an access code. This is why there are a total of 11 radio code locations in the unit.

## Radio code

The 1 billion security code, which in the ex-factory state or after the factory reset is uniquely preassigned to all the radio code locations.

## 4 Putting into operation / Changing the battery

If the unit is not connected to a battery for longer than 5-10 minutes or if the connected battery is fully run down and a new one has to be inserted, then the FCT 10 is in the so called start-up mode. This is signalled by a brief signal tone every 4 seconds. In this connection all "normal" functions are deactivated. In order to activate these functions, the valid start-up code for the unit (IB code – in the ex factory state or after the factory reset always: "12345678") must be entered:

1. Connect the battery → a signal tone sounds every 4 seconds.
2. Enter the valid (8-digit) IB code using the numeric keys → every time a numeric key is pressed, this is acknowledged by a brief signal tone.
3. Press the "key" switch → when a valid entry has been made, a long signal tone sounds indicating that the unit is now in the normal operating mode.

**Note:**

An invalid entry is signalled by three brief signal tones, then the IB code must be re-entered. After four invalid entries the unit deactivates itself completely for 10 minutes. Not until the 10 minutes have elapsed can the process be restarted (a brief signal tone sounds every 4 seconds).

## 5 Normal operation

During normal operation all the "normal" functions of the unit are activated, whereby a distinction is made between the programming functions and the operating functions.

### 5.1 Programming functions

Referred to here are the functions with which the operating functions can be preset (programmed). The programming functions essentially differ from the operating functions to the extent that before the actual numeric entry is made, the "key" switch is pressed. In this connection it is assumed that any possible phases from the operating functions have expired. This is always signalled by a long signal tone. If there is any doubt about this, **before** making an entry, you should wait more than 20 seconds without pressing any key.

**Note:**

Every press of a key allowed is acknowledged by a short signal tone; in this way you can monitor whether the button was actually pressed. Furthermore, between two presses of a key in succession, no more than 15 seconds may elapse; otherwise a long signal tone sounds and you then can/have to start anew. In this way (simply wait for a long signal tone to sound) an operation initiated by mistake can be aborted and started anew.

An invalid or incorrect entry is always signalled by three brief signal tones - after which the unit completely deactivates itself for 10 seconds. You then have to wait for a long signal tone to sound before the operation can be started anew.

### 5.1.1 Altering the IB code or entering a personal IB code

After the unit is initially put into operation or after the factory reset it is **essential** that you change the factory presetting of the IB code "12345678" to a personal 8-digit IB code (Figure 2): It is **essential** that you take note of this changed IB code because if you lose it the unit can only be made to work again after a so called factory reset carried out at the factory!

1. Press the "key" switch.
2. Enter the current (8-digit) IB code using the numeric keys.
3. Press the "key" switch → if a valid entry has been made a long signal tone sounds.
4. Enter the new (8-digit) IB code using the numeric keys.
5. Press the "key" switch → if a valid entry has been made, a long signal tone sounds.
6. Enter the new IB code (6-digit) again using the numeric keys.
7. Press the "key" switch → if a valid entry has been made a long signal tone sounds and the new IB code is valid with immediate effect.
8. You can make a note of the IB code here » \_\_\_\_\_ «.

#### Note:

The access codes and the radio codes are retained even after the IB code has been altered.

### 5.1.2 Entering or altering the access codes

In the ex-factory state or after the factory reset all ten storage spaces (numbered from 0 to 9) for the access codes are either empty or deleted so that no enterable code matches them. The access codes can be entered or altered as follows (Figure 3):

1. Press the "key" switch
2. Enter the valid (8-digit) IB code using the numeric keys.
3. Press the "key" switch → if a valid entry has been made, a long signal tone sounds.

4. Enter the single-digit storage space number using a numeric key.
5. Press the "key" switch → if a valid entry has been made, a long signal sounds.
6. Enter the desired (2 – 6-digit) access code using the numeric keys.
7. Press the "key" switch → if a valid entry has been made, a long signal tone sounds and the entered or altered access code is valid with immediate effect.

**Note:**

A radio code which is assigned a storage space number, is retained even after altering the access code belonging to it!

### 5.1.3 Deleting the access codes

Each of the ten storage spaces for the access codes (numbered 0 to 9) can be deleted so that no enterable code matches them (Figure 4).

1. Press the "key" switch.
2. Enter the valid (8-digit) IB code using the numeric keys.
3. Press the "key" switch → if a valid entry has been made, a long signal tone sounds.
4. Enter the single-digit storage space number using a numeric key.
5. Press the "key" switch → if a valid entry has been made, a long signal sounds.
6. Press the "key" switch again → a long signal tone sounds and the access code of the storage space in question is deleted.

**Note:**

A radio code which is assigned a storage space number, is retained even after altering the access code belonging to it!



## 5.2 Operating functions

The operating functions are the functions which, after putting the unit into operation and entering the access codes, represent the actual operation of the unit.

### **Advice on entering the access codes with the operating functions:**

Before entering a valid or matching access code any number of numeric keys may be pressed so that on making an entry when accompanied by another person, there is no risk of this person being able to take note of the access code. Only the **last six** presses of the numeric keys before the "key" switch is pressed are used for the comparison with the stored access code.

Every press of a key allowed is acknowledged by a short signal tone; in this way you can monitor whether the button was actually pressed. Furthermore, no more than 15 seconds may elapse between two buttons being pressed in succession; otherwise a long signal tone sounds and you then can/have to start anew. In this way (simply wait for a long signal tone to sound) an operation initiated by mistake can be aborted and started anew.

An invalid or incorrect entry is always signalled by three brief signal tones - after which the unit completely deactivates itself for 10 seconds. You then have to wait for a long signal tone to sound before the procedure can be started anew.

### **5.2.1 Transmitting after entering an access code**

1. Enter the valid access code using the numeric keys.
2. Press the "key" switch → if a valid entry has been made, a long signal tone sounds and the corresponding radio code is transmitted (in doing so, rapid signal tones sound).

**Note:**

As long as the "key" switch remains pressed, the radio code is transmitted, but for a maximum of 15 seconds.

After the first transmission a phase of 20 seconds is started, in which the same radio code can be repeatedly transmitted using any key, except the "bell/light" key (in doing so, rapid signal tones sound). The end of this phase is signalled by a long signal tone.

With the "bell/light" key, the phase of 20 seconds can be prematurely terminated (in doing so, a long signal tone sounds). In this way it is possible to enter another access code without having to wait for the 20 seconds to expire and to thus transmit another radio code in order to use it, for example, to open or close another door.

## 5.2.2 Learning after entering an access code

**Attention!**

During the learning process, a door cycle can be initiated by activating the teaching transmitter, provided a receiver programmed for it is located nearby!

1. Enter the valid access code using the numeric keys.
2. Hold the teaching transmitter as shown to the FCT 10 and then press and keep pressed the desired key of which the radio code is to be learned (see figure 5).
3. Press the "key" switch and keep it pressed → if a valid entry has been made, a long signal tone sounds.

4. If the received signal from the teaching transmitter is strong enough, after approx. 0.5 seconds brief signal tones are emitted for about 4 seconds indicating that the signal can be learned.
5. Keep the keys pressed right up until the end of these 4 seconds → after successfully entering the access code, a long signal tone sounds.
6. Release the keys of the teaching transmitter and the FCT 10.
7. Carry out a function test, if this is unsuccessful, repeat the operation.

#### **Note:**

If the "key" switch is released before the 4 seconds mentioned above have elapsed, the learning process is aborted, signalled by three brief signal tones. The existing radio code is then retained.

### **5.2.3 Recoding a radio code location with an access code or resetting this radio code location to the factory coding**

1. Enter the valid access code using the numeric keys.
2. Press the "key" switch and keep it pressed → if a valid entry has been made, a long signal tone sounds.
3. **Immediately afterwards** press the "bell/light" key in addition and keep it pressed → brief signal tones start to be issued for approx. 4 seconds indicating that the unit can be recoded or reset to the factory coding.
  - If one of the two keys is released **before the end** of these 4 seconds, the existing radio code is overwritten by a new unique radio code → after successfully recoding, a long signal tone sounds.
  - If the **two** keys continue to be pressed **until the end** of the 4 seconds, the existing radio code is reset to the factory coding → after successfully resetting to the factory code, a long signal tone sounds.
4. Release the keys.

### **Note:**

If **both** keys are released **before the end** of the above-mentioned 4 seconds, the recoding or resetting process is terminated, in connection with which three brief signal tones sound. The existing radio code is then retained.

## **5.3 Direct function of the "bell/light" key**

During normal operation the "bell/light" key has a special status – it can be used **directly** just like a hand transmitter for transmitting and learning, **i.e. without having to enter an access code**. Furthermore, its radio code can be recoded as well as reset to the factory coding.

Within the operating functions this direct function is nearly always active, **i.e. even when an access code is being entered**, provided no other key is being pressed or in another radio code location no transmission, learning recoding or factory coding is taking place.

**An exception is the phase of 20 seconds** in which the same radio code can be repeatedly transmitted, without a new access code having to be entered, as in doing so the "bell/light" key for prematurely terminating this phase is required. During these 20 seconds the direct function of the "bell/light" key is therefore deactivated.

### **5.3.1 Transmitting using the "bell/light" key**

1. Press the "bell/light" key → a long signal tone sounds and the radio code belonging to it is transmitted (in doing so, rapid signal tones sound).

### **Note:**

As long as the "bell/light" key continues to be pressed, the radio code is transmitted, but for a maximum of 15 seconds.

## 5.3.2 Learning using the "bell/light" key

### Attention!

During the learning process, a door cycle can be initiated by activating the teaching transmitter, provided a receiver programmed for it is located nearby!

1. Hold the teaching transmitter as shown to the FCT 10 and then press and keep pressed the desired key of which the radio code is to be learned (see figure 5).
2. Press the "bell/light" key and keep it pressed → if a valid entry has been made, a long signal tone sounds.
3. If the received signal from the teaching transmitter is strong enough, after approx. 0.5 seconds brief signal tones are emitted for about 4 seconds indicating that the signal can be learned.
4. Keep the keys pressed right up until the end of these 4 seconds → after successfully entering the access code, a long signal tone sounds.
5. Release the keys of the teaching transmitter and of the FCT 10.
6. Carry out a function test, if this is unsuccessful, repeat the operation.

### Note:

If the "bell/light" switch is released before the 4 seconds mentioned above have elapsed, the learning process is aborted, signalled by three brief signal tones. The existing radio code is then retained.

## 5.3.3 Recoding the radio code location of the "bell/light" key or resetting this radio code location to the factory coding

1. Press the "bell/light" key and keep it pressed → a long signal tone sounds.
2. **Immediately afterwards** press the "key" switch in addition and keep it pressed → brief signal tones start to be emitted for approx. 4 seconds indicating that it is possible to recode or to reset to the factory coding.

- If **one** of the two keys is released **before the end** of these 4 seconds, the existing radio code is then overwritten by a new unique radio code → after successfully recoding, a long signal tone sounds.
- If the **two** keys continue to be pressed **right up until the end** of the 4 seconds, the existing radio code is reset to the factory coding → after successfully resetting to the factory setting, a long signal tone sounds.

3. Release the keys.

**Note:**

If the two keys are released **before the end** of the 4 seconds mentioned above, the recoding or resetting process is terminated and three brief signal tones sound. the existing radio code is then retained.

## 6 EU Manufacturer's Declaration

Manufacturer: Verkaufsgesellschaft KG  
Upheider Weg 94 – 98  
D-33803 Steinhagen

**Product:** Code modulator

**Unit type:** FCT 10

On the basis of its design and type in the version marketed by us the product described above meets the relevant basic requirements of the directives listed below. In the event that the product is changed or modified without our approval, this declaration loses its validity.

**Relevant Directives that the product complies with:**

Conformity of the above mentioned products with the requirements of the Directives according to Section 3 of the R & TTE Directives 1995/5/EC has been proven by observance of the following Standards:

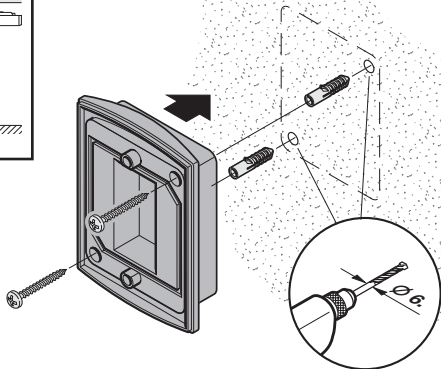
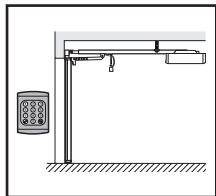
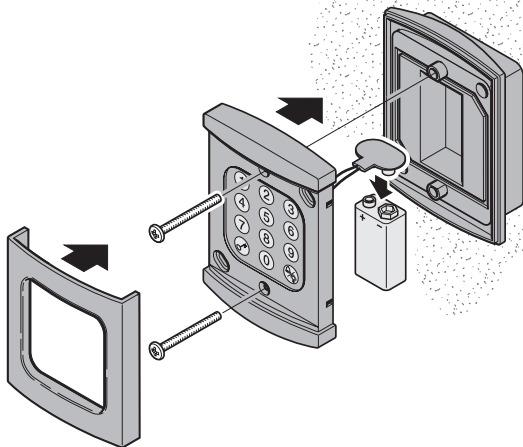
**Applied Standards:**

ETS 300 683	issue: 06/97
I-ETS 300 220	issue: 10/93
EN 300 220-1	issue: 11/97

Steinhagen, 01.01.2001



ppa. Axel Becker  
Management

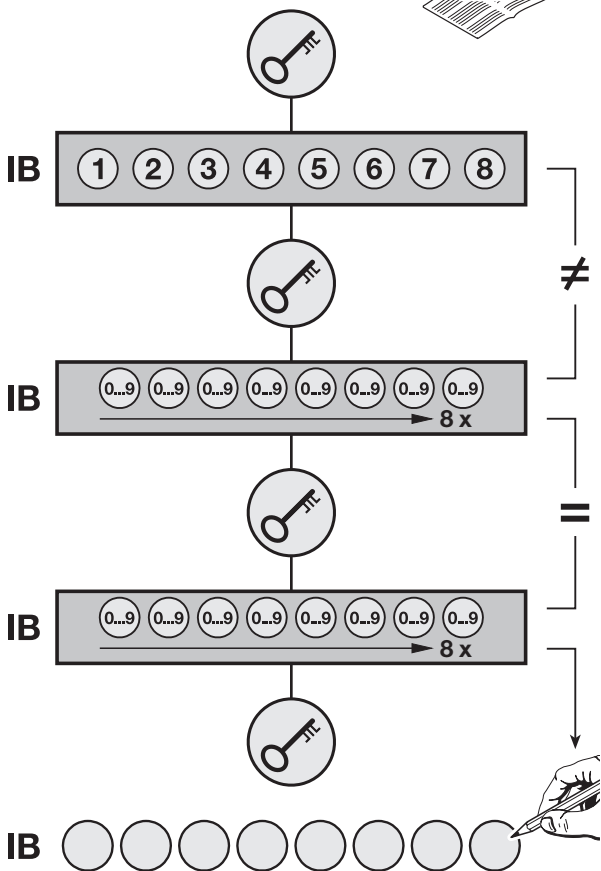
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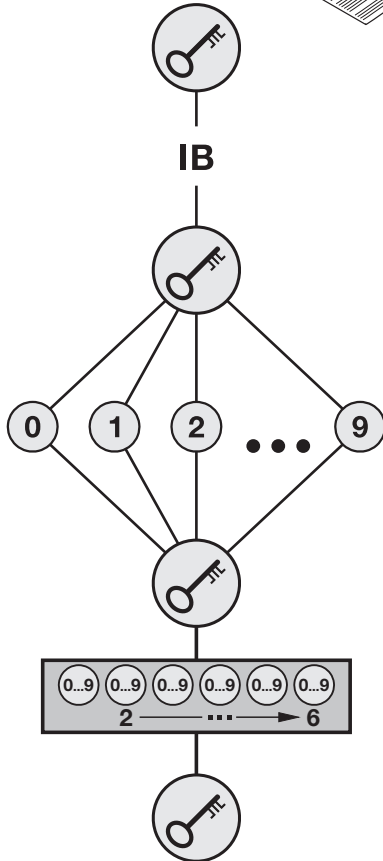


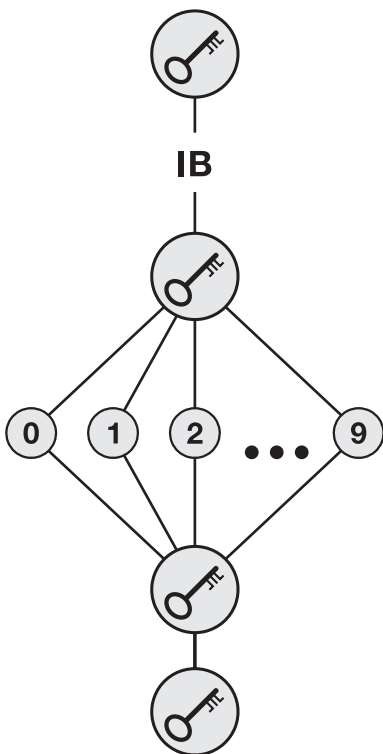


5.1.1

2





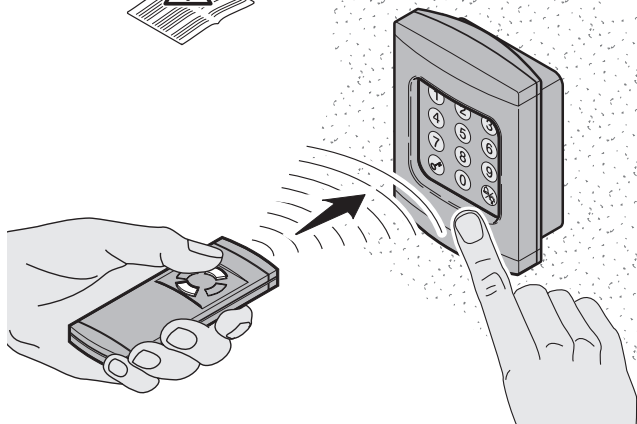


40 MHz

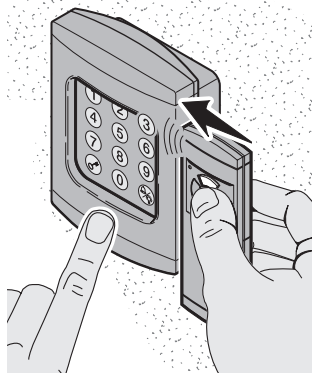


5.2.2

5



433 MHz



868 MHz

