

Bedienungs-
anleitung

Operating
instruction



mobifinder[®]

Aufspüren von mobilen Telefonen

Detection of mobile phones

INTRODUCTION

mobifinder detects

- GSM 900 mobile phones
(e.g. D1 nets and D2 nets in Germany)
- GSM1800 mobile phones
(e.g. E-Plus and E2 nets in Germany)

in their operational transmitting mode.

A mobile phone transmits:

- when logging on,
as soon as the switched-on mobile phone detects
an authorized transmitting station
- while the hook-up is established and the call is
being placed
- during the telephone call
- when a call is placed to the mobile phone
note: before the phone actually starts to ring
- when entering or leaving a transmission radius,
e.g. when, while driving, the phone enters a radius
belonging to the next transmitting station

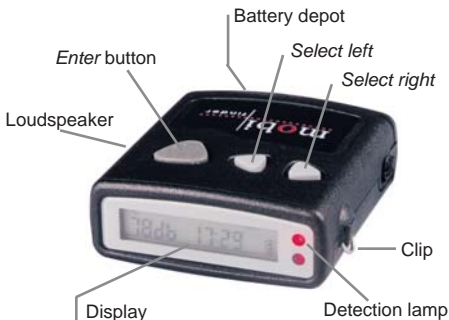
Trying out any of these situations is the easiest way to accustom yourself with what *mobifinder* can do.

The tracking field intensity is displayed in decibels (dB). This represents a unit of measurement for the strength of the signal being received by *mobifinder* from a mobile phone.

The tracking field intensity displayed is dependent on the transmitting power of the mobile phone in use. This does not remain constant. It changes in proportion to the distance to the transmitting base station.

In practice, you will be able to determine that the tracking field intensity displayed by *mobifinder* represents a high degree of reliability in terms of the distance to a mobile phone.

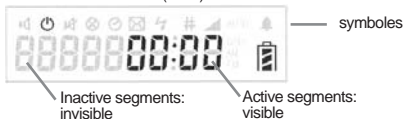
Construction, Buttons & Display



Display retired

The display switches back and forth between showing the time (4 sec.) and the date (1 sec.).

Off time (date)













- ▶ Each symbol can be activated using either the **Select left** or **Select right** button.
- ▶ After choosing the desired symbol, press the **Enter button**.

DISPLAY SYMBOLS & OPERATING MODES

mobifinder Display Symbols:


(Display Position from left to right):

Loudspeaker		Detection with <i>acoustic alarm</i>
Off		Off
Striked loudspeaker		Detection with <i>silent alarm</i>
Lamp		Detection with <i>optical alarm</i>
Clock		Setting the time and date
Memory		Recalling the measurements
Interface		Communication with a PC
Number		Setting of a 6-digit number
Sensitivity		Setting the threshold value
Auto Power-Off	AUTO	Auto Power-on-off
Bell		Setting the Beeper Volume


mobifinder switched off:

 **Off**
symbol is activated

mobifinder Operating Modes:

 ***acoustic and optical alarm***
symbol is activated + measurement reading

 ***silent (vibration mechanism) and optical alarm***
symbol is activated + measurement reading

 ***optical alarm***
symbol is activated + measurement reading

BRIEF OPERATIONAL GUIDE



Operating Mode: *Acoustic and optical alarm*

Using the following steps you can put your *mobifinder* into operation immediately.

Note: if, while setting, no button has been pressed for approx. 15 seconds, *mobifinder* will return to the previous respective operating mode. Entries which have **not** been confirmed will then be discarded. See also Chapter OPERATION.

1. **Insert batteries**

Slide the battery depot cover locking mechanism down. Remove the battery depot cover by sliding it sideways. Insert batteries into the compartment as shown. Slide the cover of the battery depot back into place and lock it. *mobifinder* now beeps and vibrates (self test). If *mobifinder* does not show this behaviour, please see Chapter Battery Check.

2. **Setting the time and date**

Press the *Select right* button three times until the clock symbol blinks. Press the *Enter* button. The hour display indicator starts to blink.

Using the *Select right* button, set the hours.

Reconfirm using the *Enter* button. The minute display indicator starts to blink.

The above procedure should now be repeated until the minutes, day and month have been set.

Reconfirm the entire setting using the *Enter* button.

The clock symbol will blink.

3. **Switching on *mobifinder***

Press the *Select left* button four times: the loudspeaker symbol starts to blink. Reconfirm using the *Enter* button. *mobifinder* will indicate that it is operational by flashing briefly accompanied by a short beeping tone.

mobifinder now detects mobile phones during transmission with blinking and beeping.

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OPERATION

Batteries

The cover of the battery depot is located on the bottom of *mobifinder*.

Insert two Alkaline batteries of Type AAA into the battery depot and proceed as follows:

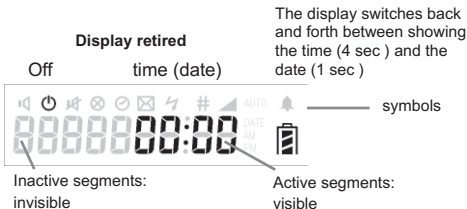
- 1 Release cover.
- 2 Slide the cover outwards and remove.
- 3 Insert batteries. Please pay attention to the battery polarity indicated.
- 4 Slide the cover of the battery depot back into place while pressing the batteries into position until the cover locks on.
- 5 Bolt cover.

After the batteries have been inserted, *mobifinder* tests itself:

mobifinder self-test

Both beeper and vibration alarm are activated in succession, during this the Detection lamp and the background illumination are blinking.

After approx. 2 seconds, *mobifinder* places itself in the inactive mode.



If *mobifinder* does not show this behaviour, please see Chapter Battery Check and Error Messages.

Setting the Time and Date

Choose the clock symbol. The time can be set by pressing the *Enter* button when the clock symbol blinks.

For hours (blinking display), the number can be set higher using the *Select right* button or lower using the *Select left* button. Pressing the *Enter* button again causes the minutes to blink. They are then set in the same way as the hours.

Holding down the *Select right* or *Left* button for a longer period of time increases the speed with which the numbers vary, whether forward or in reverse.

Pressing the *Enter* button once again causes the time to save and the date to appear and the day (blinking display) can be set. On the right the symbol DATE appears. The month can be set after this by pressing the *Enter* button again.

If, by accident, a date has been set which does not exist, a confirmation will not be possible and the display will return to the day setting. The 29th of February can be set as a date; however, if it has not been deliberately set, the date will jump from the 28th of February to March 1st.

Note: if, while setting, no button has been pressed for approx. 15 seconds, *mobifinder* will return to the previous respective operating mode. Entries which have **not** been confirmed will then be discarded.

Number

mobifinder gives to every alarm a 6-digit identification number. After the identification number has changed, all the following reading taken get this number.

(Default: 000000)

Select Symbol and press *Enter* button.

Now the first digit (blinking display) can be set higher using the *Select right* button or lower using the *Select*

left button. Holding down the *Select right* or *left* for a longer period of time increases the speed with which the numbers vary, whether forward or in reverse.

Pressing the *Enter* button once again causes the select of all 6 digit one after another. All numbers are to set in the same way as the first. If at the end the symbol is blinking, the process is finished. The new identification number will be stored with measurement taken of 00dB.

If, while setting, no button has been pressed for approx. 15 seconds, *mobifinder* will return to the previous respective operating mode. Entries which have not been confirmed will then be discarded.

Switching On

The desired operating mode can be chosen by using the *Select* buttons (*Left* or *Right*).

Pressing the *Enter* button serves to confirm the corresponding operating mode. A short test alarm is then triggered (*acoustic* or *silent*) and *mobifinder* is ready for use.


Obtaining Readings In Case of Alarms

In cases where an alarm has been triggered, it will be signalled either by an *acoustic alarm* and blinking *Detection lamp*, a *vibration alarm* and blinking *Detection lamp*, or solely by the blinking *Detection lamp* (depending on the operating mode). By subsequent alarms, only the reading taken will be shown, accompanied by the blinking *Detection lamp*.

However, if this measurement is confirmed via the *Enter* button, or if no further signal is received for approx. 20 seconds, any alarms triggered by the next reading taken will take the form of the operating mode chosen, i.e. *acoustic*, *silent* or *optical*. This measurement will be stored.

Confirming the reading by pressing the *Enter* button erases the display of measurement taken. The display will return 00dB. Maximum 200 measurement values can be stored. The display blinks if only 20 measurement values more can be stored. In this case please recall first reading taken from the measurement reading memory. If 180 measurement values are stored again, the display blinks again. The oldest measurement taken will be cleared.

Setting the Threshold Value

The threshold value for a reading can be set by pressing the *Enter* button when the symbol  blinks. The value will then blink (showing e.g. 15 dB), and can be raised or lowered by use of the *Select right / Select left* buttons. If the value shown is then confirmed with the *Enter* button, it will be automatically stored. Should the maximum threshold value be reached (78 dB), the scale will begin again at 12 dB. Once again, any threshold value will be taken over and set by pressing the *Enter* button.

The higher the value, the less sensitive the device will be to incoming signals.

Note: If no button is pressed for approx. 15 seconds while the threshold value is blinking (Time Out), the device will return to the current operating mode and the threshold value will **not** be retained.

Measurement Reading Memory

mobifinder will always save a reading taken in those situations when they have been triggered along with an alarm,

- following directly after setting the operating mode
 - after using the *Enter* button to confirm a measurement taken (the next one will be stored)
 - if no further signal is received for approx. 20 seconds.
- The measurements saved can be re-displayed by using the recall function. A maximum of 200 values can be

stored. When recalling, the most recent value will be displayed. If the measurement reading memory is empty, hyphens will appear.

The readings are stored cyclically, meaning that the oldest measurement taken will be written over by the newest one. Recalling the readings is begun by pressing the *Enter* button when the mail-box symbol starts to blink. Using the *Select left* button, the user can now backpage to older measurement readings taken. Using the *Select right* button, the user can flipforward to the most recent reading taken. Each use of button will be confirmed with a click, if a new value is displayed.

The only way to leave this mode is by pressing the *Enter* button again (no Time Out).

Setting the Volume of the *acoustic alarm*

The volume can be set at two levels. If the *Enter* button is pressed while the bell symbol is blinking, the words HI (high volume) or LO (low volume) will start to blink. The choice can be alternated by using the *Select* buttons for *right* or *left*. As before, pressing the *Enter* button again will confirm the settings and a test alarm is then triggered.

Note: if, while setting, no button has been pressed for approx. 15 seconds, *mobifinder* will return to the previous respective operating mode. Entries which have not been confirmed will then be discarded.

Battery Check

The device carries out a battery check periodically and after inserting batteries. While the battery check the background illumination is active.

Following displays are possible:



Batteries are ok



Batteries will go empty.



Battery change is recommended.



Battery is empty.
mobifinder is not longer ready.

LCD Background Illumination

Whether the relative brightness of the immediate surroundings is sufficient for reading the display is checked each time a button has been pushed or an alarm triggered. If the surroundings are not bright enough, the background illumination is switched on for approx. 8 seconds.

Switching Off, Auto Power-Off

mobifinder can be switched off by selecting the Off symbol and pressing the *Enter* button.

If the AUTO symbol has been activated, *mobifinder* will automatically switch itself off after approx. 30 minutes as long as no other adjustments or activities have taken place (pressing buttons or detecting alarms). Before switching off through the AUTO mode, a short *acoustic* or *silent alarm* (depending on the active operating mode chosen) will be triggered.

If the *Enter* button is pressed while the AUTO symbol is blinking, the Auto Power-Off function can be switched on or off. The current status is shown on the display (On/OFF). At position On the symbol line stays on AUTO.

Note: if, while setting, no button has been pressed for approx. 15 seconds, *mobifinder* will return to the previous respective operating mode. Entries which have **not** been confirmed will then be discarded.

Setting the Operating Mode

Example:

acoustic and optical Alarm

1) Inactive Mode:



Diagram 1

- 2) By pressing the *Select left* button, the loudspeaker symbol blinks.



Diagram 2

- 3) By pressing the *Enter* button, the Off symbol disappears and the operating mode *acoustic and optical* alarm has been set. A test alarm will follow.



Diagram 3

Setting the Operating Mode

Example:

silent (vibration mechanism) and optical Alarm

1) Inactive Mode:



Diagram 4

2) By pressing the *Select right* button, the crossed-out loudspeaker symbol blinks.



Diagram 5

3) By pressing the *Enter* button, the Off symbol disappears and the operating mode *silent and optical alarm* has been set. A test alarm will follow.



Diagram 6

Switching Off:

Example:

Operating Mode *acoustic and optical Alarm*

- 1) Operating Mode *acoustic and optical Alarm*:



Diagram 7

- 2) By pressing the *Select right* button, the Off symbol blinks.



Diagram 8

- 3) By pressing the *Enter* button, the acoustic alarm symbol disappears and the measurement display is erased.



Diagram 9

Setting the Beeper Volume

Example:

Operating Mode *acoustic and optical Alarm*

1) Operating Mode *acoustic and optical Alarm*:



Diagram 10

2) By pressing the *Select left* button, the bell symbol blinks and the present status is shown on the display. The setting shown here is for loud (display HI).



Diagram 11

3) By pressing the *Enter* button, HI blinks and the setting can be changed to low volume.



Diagram 12

- 4) Adjusting the volume is done by pressing the *Select right* or *Select left* buttons.
(Display LO blinks)



Diagram 13

- 5) Confirming the setting is done with the *Enter* button, the volume is now low (display LO). *mobifinder* beeps for control.



Diagram 14

Setting the Threshold Value

Example:

Operating Mode *optical Alarm*



Diagram 15


- 1) By pressing the *Select right* button until the symbol  blinks, the present threshold value is displayed.



Diagram 16

- 2) By pressing the *Enter* button, the threshold value itself blinks.



Diagram 17

- 3) Pressing the *Select right* button increases the threshold value by 3 dB (*Select left* decreases the value by 3 dB). If the maximum of 78 dB has been reached, the scale starts over again at 12 dB. The larger threshold value, the less sensitive the device is for incoming signals.



Diagram 18

- 4) The threshold value measured can become the new threshold norm by pressing the *Enter* button. The display will then be as shown in diagram 16 with new threshold value.

Calling up old Measurement Readings

Example:

Operating mode *silent (vibration mechanism) and optical Alarm*:



Diagram 19

- 1) By pressing the *Select right* button three times, the memory symbol for calling up measurement readings blinks.



Diagram 20

- 2) By pressing the *Enter* button, the last measurement reading stored will be displayed (first the time).



Diagram 21

- 3) Wait approx. 4 seconds: the date of the reading will be displayed (in this case a measurement of 63 dB on 16 of July at 6:37 PM).



Diagram 22

- 4) Using the *Select left* button, the user can now backpage to older measurement readings taken. Each use of button will be confirmed with a click. While leafing through the measurements, the time will be shown first, followed after approx. 4 seconds by the date.
- Using the *Select right* button, the user can flip forward to the most recent reading taken.
- The *Enter* button is used to leave the measurement reading mode; the status is returned to that shown in diagram 20.

Communication with the *mobi-PC Kit* (purchased separately)

1) Inactive Mode



Diagram 23

If *mobifinder* is not inactive, please switch off the device.

2) Press the select right or select left button until the symbol interface begins to blink.



Diagram 24

3) Confirm the option by pressing the *Enter* button. The display will now show ConnEct and *mobifinder* is now able to communicate via this optical interface.



Diagram 25

4) To exit this mode, just press the Enter button once again. The display will then be as shown in diagram 24.

Error Messages

If *mobifinder* shows an error message (e.g. ERROR 00), please call the service.

