

Instructions for Use



push
PHONE OK
locating and communication

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Product Overview

Thank you for purchasing the OK Pushphone. This device is splashproof (IPX6), innovative miniature size for personal locating function with built-in U-blox GPS and GSM / GPRS technology.

The device is not intended for surveillance, but to protect people and property. It can be used in all areas of life. For the employees of mobile care facilities, older people so that they can stay mobile for longer, for dementia, diabetes and MS sufferers and many other impairments that occur in everyday life.



1. Safety instructions

Please read and note the following information and keep these instructions for use for reference!

Safety instructions in accordance with DIN 82079-1

General warnings

- Risk of choking on small parts, packaging and protective films!
- Keep product and its packaging out of reach of children!
- Pacemaker users should maintain an adequate distance between the device and their pacemaker.

If in doubt, ask your doctor.

2. Intendend use

Please use the device only in the intended way. Any other use is deemed not to be intended, or rather misuse. Only use the corresponding rechargeable battery with power pack to charge the device. Unauthorised changes or modifications to the OK Pushphone are not allowed. Never open the device yourself and never attempt to repair it yourself, as this causes the guarantee to expire.

Avoid environmental effects such as smoke, dust, vibrations, chemicals, moisture, heat or direct sunshine.

Have the device repaired by appropriately skilled personnel only.

No liability will be accepted for consequential damage.

Technical details and Scope of supply

3. Technical details

The information in this manual can be changed or extended without notification. The illustrations in this manual are provided as examples, which do not always necessarily correspond to the status of the current product.

We reserve the right to make changes without notice. Errors and omissions excepted.

4. Scope of supply

OK Pushphone / Charging station / Charger cable / Lanyard neck strap / Instructions for use

5. Pushphone controls

Number assignment for button memory

1. Eye for lanyard neck strap
2. Loudspeaker
3. Pickup button (**M1**)
4. Hang up button (**L1**)
5. Emergency call button, e.g. (112) (**N1**)
6. Micro-SIM slide-in unit
7. Blue LED status indicator
8. LED green GSM display
9. SOS button (**A1, B1, C1**)
10. Microphone



6. Installing the SIM card

The SIM card is not included in the package. The user must buy a micro SIM card from a telephone provider.

- Insert the micro SIM card (see Fig. on next page below) and ensure that you have credit on the card and the card has been activated by the telephone provider.
- A data connection (small internet data flat rate) is required
- The rubber guard on the left-hand side of the device is opened to insert the card. Push in the micro SIM card with the contacts facing upwards until the spring resistor latches into position. Now close the rubber guard. On removing the micro SIM card, push it in slightly, then the card jumps out by a few millimetres.

Note: Before you install the micro SIM card, check whether the SIM card is protected by a PIN code. This differs depending on the phone card provider. If yes, another mobile phone must be used once to **deactivate the PIN code** of the **phone card**. **TIP:** After deactivating the PIN code, it is advisable to check by switching the mobile phone used off and back on again once. If the PIN code no longer has to be entered, then the PIN is deactivated. This is a simple way of checking whether the code has actually been deactivated.

The SIM card can then be inserted back into the OK Pushphone.

7. Charging the device

Please fully charge the battery for the initial startup.
The charging time is approx. 2–3 hours.

Connecting the charger station

Connect the micro USB connector to the charging station at the rear. The USB connector is then connected to the AC adapter (mains plug). The completely connected charging unit is then plugged into a 220 V power socket.

Place the Pushphone with its back on the charging station. If the telephone is inserted properly, it vibrates once briefly. During charging the red LED on the charging station is lit. After the battery is fully charged the LED on the charging station and the blue LED on the OK Pushphone goes out.



8. Switching the Pushphone on and off

How to switch on the device:

The device is switched on using the red button (press 1 x briefly until it vibrates). The device can also be switched on automatically by the charging. To do this, place the Pushphone in the connected charging station. To obtain an initial GPS position, use the Pushphone outdoors or near a window so that the device can connect to the satellite.

How to switch off the device:

Keep the Exit button and the SOS button pressed for 2 seconds, until the LEDs have gone out.

9. What do the lights mean?

Blue LED / Status indicator / GPS	Description
Blue LED on (lit continuously)	The device is charged
Blue LED flashes quickly	Battery outout is less than 15%
Blue LED off	Device has been fully charged and is still in the charging cradle
Blue LED flashes briefly every 3 seconds	The device as a GPS position
Blue LED flashes slowly every 3 seconds (2 seconds on and 1 second off)	The device is in the idle state (green LED flashes)
Blue LED off (when device is not being charged)	The device is in the idle state (green LED flashes)
Blue LED flashes briefly every 3 seconds	Description
Green LED flashes briefly every 3 seconds	The device is connecting itself to the GSM network
Green LED briefly every 3 seconds	The device is registering with the GPRS network
Green LED flashes slowly every 3 seconds	The device is connected to the GSM network
Green LED off	No SIM card detected

10. Configuring and setting by text message

How to define the phone numbers:

- It is not absolutely necessary for all phone numbers to be set, although at least one should always be set.
- The green and red handset buttons at the top can each be assigned one telephone number, which is called frequently, to make normal phone calls.
- Phone numbers A1, B1 and C1 are stored on the SOS button at the bottom. A help text message is sent first and then the phone numbers are called in order. If the first subscriber does not answer their device after 6x rings, the next phone number is called. If this call is accepted, the others, e.g. A1 and C1 are informed by text message that B1 has accepted the call.

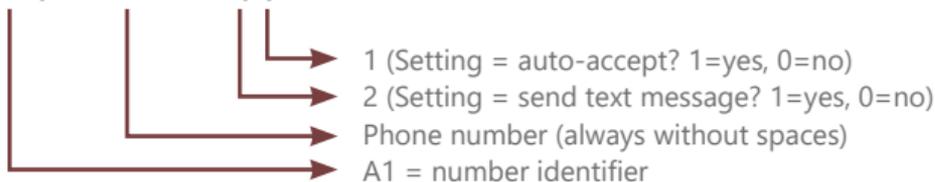
Storing phone number A1

10.1 Storing phone number A1

Note: Upper and lower case (case sensitivity) is not important and text / numbers always without spaces

• **Example:**

A1 of the a1,016094824379,1,0

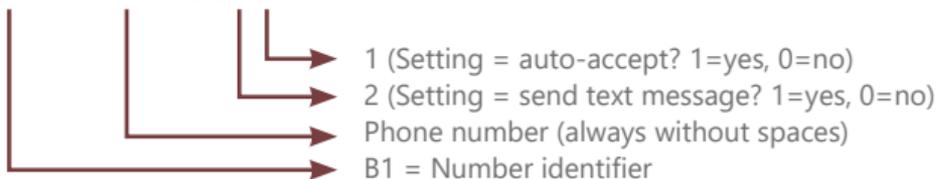


- Use your mobile phone to send A1,... to the phone number of the Pushphone, it responds: ·Set mobile number 1 OK!
- To delete this number, you can send A0 to the Pushphone or you can overwrite it with another number.
- Tip: If auto accept is switched off, it can be switched back on briefly using A1,Number,1,1 according to the situation (if the user does not pick up the Pushphone), to possibly speak directly and to be able to act in an emergency situation.

Storing phone number B1 and B2

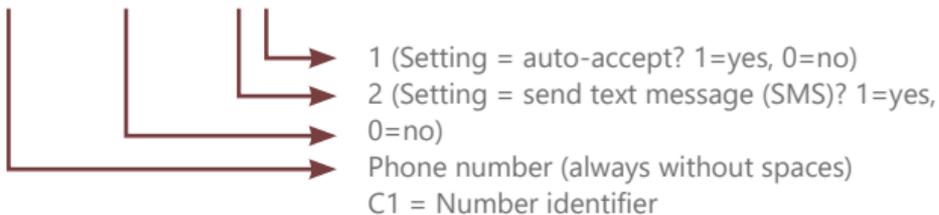
10.2 Storing phone number B1, Example:

B1 or b1,016094824379,1,0



10.3 Storing phone number C1, Example:

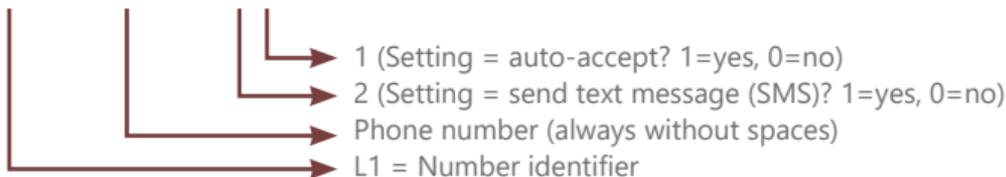
C1 or c1,016094824379,1,0



Storing phone number L1 and M1

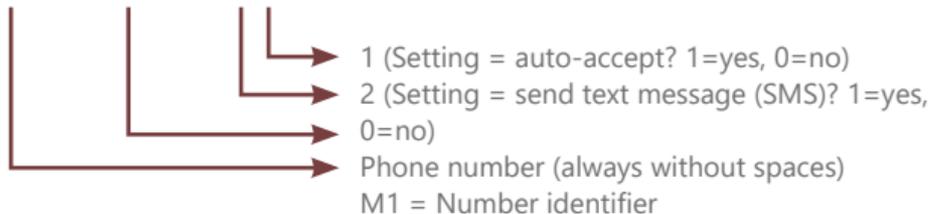
10.4 Storing phone number L1 / (red headset), Example

L1 or I1,016094824379,1,0



10.5 Storing phone number M1 / (green headset), Example

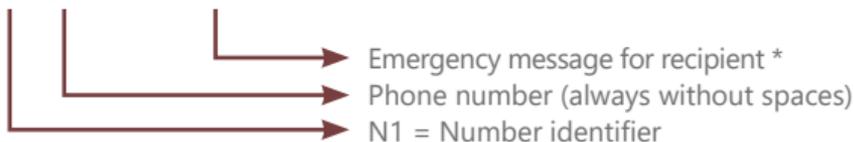
M1 or M1,016094824379,1,0



Storing phone number N1

10.6 Storing phone number N1 / (red button), Example

N1 or n1,112,016094824379



The information for the control centre, which receives the emergency call by text message, is limited to 160 characters. Therefore, several messages can be given via t1,t2,t3.

Example: N2,t1,AN Other, 015751234567, born 1954, high blood pressure, tendency to bleed, Type 2 diabetes, pacemaker, dementia, lives alone, overweight.

Example: N2,t2,AN Other, Medication: Tromcardin, Marcumar, ...

Example: N2,t3,AN Other, important, the dog in the house (Bello) barks, but never bites. Ms ... Any Road has a door key. 47

Only assigned text messages (e.g. t1,t2 and t3) are sent after the standard message. If the text message is to be converted into a fax, you must use a fax dialling code of the respective phone provider, to forward it to the necessary control centre.

** It is possible to forward the emergency message as a text message or to convert it into a fax via the corresponding service numbers. As the service numbers can change, please always get the up-to-date setup information from: www.pushphone.de/notfallnachricht*

11. SOS alarm

Press the SOS button and keep it pressed for 3 seconds, until the device vibrates and a sound signal can be heard. An SOS alarm is then sent with "Help Me!" by text message, including the position data (provided the text messaging function for the phone number is activated). The phone numbers A1, B1 and C1 are then dialled one after the other. If the Pushphone cannot establish a connection with the first number, it calls the second phone number. If it cannot establish a connection with the second number either, the Pushphone dials the third phone number. If the device is unable to reach any of the 3 phone numbers, after 3 minutes it automatically starts to redial. This process is continued until one of the stored numbers accepts the call.

Example

If the connection has been established with B1 phone number, phone numbers A1 and C1 are informed that B1 has accepted the call. Message: "Number B answered". To end the call, press the End button (red headset). Persons A1, B1, C1 should switch off their mailbox for this function to work smoothly.

12. Fall detection

A simple fall can have devastating consequences. With this function, the fall sensor is activated in the event of an impact and the authorised numbers are called, without the user having to press the SOS button. The Pushphone emits 10 signal tones (acoustic signals) at 2 second intervals. If the process is not interrupted at this time, the “SOS alarm” function is executed automatically (**under Section 11. Activating the SOS alarm**).

Important: If the person collapses slowly, it is possible that the device does not detect the fall and the function is not executed. **Command: FL1,1** (very sensitive), **FL1,2** (recommended sensitivity) ... to **FL1,5** (5=not sensitive). Here the text message is only sent if the text message function of the phone number has been activated (0 and 1 in phone number storage).

Command: FL2 also activates the call function. This means that the person not only receives a text message but, if required, they also receive a call. If this function is not activated, only a text message is sent.

The device must automatically register not only the impact but also the angle, before the dialling process begins. To switch off this function, please send **FLO**

Making a call, Accepting a call and Bell volume setting

13. Making a call

(L1=End button, M1=Pickup button, N1=Emergency call button)

To make a call, the corresponding button must be pressed for 3 seconds. A signal tone sounds incl. vibration. The green lamp flashes fast. To end the call, press the End button (red headset).

14. Accepting a call

To accept a call, the pickup button (green headset) must be pressed briefly when the phone rings.

15. Bell volume settings

Command: Bell2 (here volume 2) Pushphone responds: **Bell set OK**

Default setting 3 / selectable from 0-3

1 very quiet (almost muted), so that it can hardly be heard in the pocket, but still vibrates,

- 0=mute

Call volume setting for hand – ree equipment, Charging the time zone and User – defined name in the SMS – content

16. Call volume setting for hand

Command: Speaker2 (here volume 2) Pushphone responded: **Set Speaker OK**

- Default setting 3 / selectable from 1-4
- 1 very quiet, so that the Pushphone has to be held against the user's ear.

17. Charging time zone

Command: TZ + + 00 / -00

Note: The time must be in 2-digit and maximum 23-hour values. "+" In the "time zone" part of the text displays east. The "-" in the "time zone" displays west.

Example: tz + 02: 2 hours are added to the system time, based on the UTC time.

Tz-02: the system time changes by minus 2 hours, based on the UTC time.

The UTC time has been set as the default time

Germany is UTC +1 or UTC +2 during the summer

18. User - defined name in the SMS content

Command: name1, user name

Example: name1, Thomas, the Pushphone responds with "Add name OK!"

- To delete the name, you can send **name0**

19. Location request

19.1. Responses with coordinates and web link

command: **loc**

The device responds: "User name" (Section 18)

Time: xxxxx; (date and time)

Lat: xxxx; (latitude - geographical width)

Lon: xxxx; (longitude - geographical length)

Spd: xxxxx, (speed in km/h)

Alt: xxxx (altitude - height above mean sea level) Bt: xxx
(Battery in %)

maps.google.com/maps?q=loc:51.820568,6.448383

- Click the link and the location is then displayed directly in Google Maps on your smartphone.
- The coordinates can also be entered in Google Earth or Google Maps. Click the "Search" button, then find the position.
- Note the time in the text message! If this differs, it is possible that it is the last stored position (restrictions due to thick walls and buildings).

19.2. Responses with address

Command: add

Notes: This function requires GPRS.

The device responds, e.g. "Im Geer 15, 46419 Isselburg,Germany;

20. Low battery alarm

Command: Low1,a

If the device's battery charge is less than 20%, a text message alarm "BAT: LOW sent!" is sent to an authorised number (Example: A). If the battery charge is less than 20%, the blue light flashes quickly to warn the user to charge the device as quickly as possible. To deactivate this function, please send **Low0** to the device.

21. Call control

Command: CALL1 Calls can be made: **CALL0** all calls are blocked. If the user can no longer use the device as a telephone, this function should be deactivated (Call0). The device is then only used for locating.

PIN LOCK and Change default password

22. PIN LOCK

The PIN lock is used to prevent third party access via your text message commands. Once the PIN lock is assigned it applies to all commands. The PIN must then always be entered first to use the commands.

Command: **123456lock** response from Pushphone: "LOCK OK!"

From this time you now require a password before you can send commands (except for restart and RESET!). **Example:** 123456low1,a or 123456add or 123456status etc. (the default password is 123456). To remove the password protection, simply send

123456unlock

23. Change default password

Command: **Old password + H + new password**

Example: **123456H666666** response from Pushphone is "Password changed!" The password is now changed to 666666. Numbers and letters can be entered (6-digit).

The most recently set password is not deleted if you use a new SIM card, as this information is stored in the telephone. (This means it does not change back to 123456.)

- Note the new password, otherwise the Pushphone will have to be reset to the factory settings (RESET) and all settings are lost.

Geo-Fence Alarm

24. Geo-Zaun-Alarm / Geo-Fence Alarm

Command: **G**+**X**,**Y**,**Z**,**xxxM/KM**

Example: **G1,1,1,100M**

Notes: Must be entered without gaps and spaces.

G = Geo-fence.

X = No. of the geo-fence. For Geo fence (1- 3) the user can set 3 Geo fences

Y = 0 means switch off the function

Y = 1 means that the function will be switched on

Z = 0 means trigger an alarm if the person with the Pushphone leaves the predefined area.

Z = 1 means trigger the alarm if the person with the Pushphone enters the predefined area.

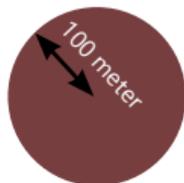
M means metre, **KM** means kilometre

The device sends the message to the authorised numbers as „Geo fence alarm! + GPS info“, if the Pushphone holder enters the area set by you.

(The users can only set this function if they have a GPS position.

Can be determined via the blue light, see page 5. Blue LED flashes briefly every 3 seconds.)

To switch off this function, please send **G1,0 or G2,0 or G3,0**



Overspeed warning and Movement alarm after time

25. Overspeed warning

Command: speed1,+ speed,xx,phone number

Notes: The speed must be in km/h within a 2- or 3-digit range (01-255 km/h). Phone number selection: A,B,C,L,M,N.

Example: speed1,60,A

Assuming the overspeed warning we want to set is 60km/h. If the device exceeds 60 km/h, it sends the message: "Overspeed! + GPS info" to phone number A. This function is used, e.g. if persons never use means of transport during the day and should or would not necessarily do so on their own. If the Pushphone user moves faster than 60 km/h, a text message is sent to the predefined number (in this case A).

To switch off this function, please send **speed0** to the device.

26. Movement alarm after time

Note: S means seconds, M means minutes, H means hours, xx means the set time and be made up of two numbers.

Example: V1,15M

The Pushphone detects the movement. If no movement takes place within 15 minutes (in this example), the device then sends a text warning message to all registered phone numbers. To switch off this function, please send **V0**

Switch off LED functions and AGPS

27. Switch off LED functions

Command: LED1

The Pushphone responds with „LED off“, the LEDs then no longer flash, but the device is actually on. To switch on LEDs, please send LED0 (LEDs on)

28. AGPS

Command: AGPS1, Latitude, Longitude

Example: AGPS1,51.163375,10.447683 (is the preset of Germany – can also be changed by the user)

AGPS is a system that is able to improve the start performance or time-to-first-fix (TTFF) significantly. Time-to-first-fix (TTFF) is the time that a GPS receiver needs until it can determine its position for the first time after being switched on.

The TTFF is normally several minutes, but can also be shortened to 1 second by assisted GPS (AGPS). Shortening the TTFF time is particularly important in emergency situations. Based on the preset coordinates, the system searches within a radius of 500 km and can therefore be found more quickly. To switch off this function, please send **AGPS0**

29. Check settings

Command: **phone**

The device responds, e.g.

User name

A: 004916094824379,1,1

B: 004915751234567,1,0

C: 004915758910113,0,0

L: 004915757961977778,1,0

M:

004915757961999995,1,0

N1: 00491575796191234

N2: 00492874910166

The number "0" implies that the function is switched off, while "1" indicates that the function is switched on.

Command: **status**

Overspeed

GEO fence

Movement alarm

LED

Time zone

Operating mode -

Mode1+2

Deep sleep mode - Mode3

Fall sensor

Battery

SMS activation

Device PIN LOCK

Call control

Battery signal <20%

Bell

Loudspeaker

Overspeed

GEO fence

Movement alarm

LED

Time zone

Operating mode -

Mode1+2

Deep sleep mode - Mode3

Fall sensor

Battery

SMS activation

Device PIN LOCK

Call control

Battery signal <20%

Bell

Loudspeaker

30. Overview of all 5 operating modes

1. Phase tracking mode (1)

Command: PS0

In this mode, both GSM and GPS are switched on all the time. The battery power lasts for approx. 18 - 24 hours.

2. Intelligent energy saving mode (2) (default mode)

Command: PS1

In this mode the GSM chip operates, receives calls, text messages and transmits the location. The GPS chip is activated by movement, incoming calls and text messages. The GPS chip is switched off if no movement takes place or the phone is not used. No battery power is required if the device does not move. With normal use, a fully charged battery lasts between 3 - 7 days.

3. Deep sleep mode (3)

Command: DS1 or ds1,xxM/H (M=minutes, H=hours)

Both the GSM and the GPS chip are switched off to save energy. In this state the device is not able to receive calls or text messages. It can only be activated by movement. As soon as the movement is detected, the function runs for the set time and then returns to idle mode if no movement is detected. If no movement at all takes place, the battery lasts for up to 40 days. To switch off this function, send **DS0**

30. Overview of all 5 operating modes

4. Press mode button (4)

Command: Mode4

In this operating mode the device can always receive text messages and phone calls. The GPS chip is only on and updates the location to transmit the position if a button is pressed. The GPS is always off unless a button is pressed.

5. Time interval - working mode (5)

Command: Mode5,xxS/M/H (Example: Mode5,10M)

The device updates the location of the tracking platform every xx minutes. In this operating mode the device can always receive text messages and calls. The location on the tracking platform is updated after the preset time. In this example, every 10 minutes. Here the battery lasts approx. 1 - 2 days.

31. Real time search

on <http://mein.pushphone.de>

Our web-based GPS system with TCP / IP protocol enables users to monitor the Pushphone over the internet or to send an email to predefined email addresses.

How to connect the device with the platform for real time tracking via GPRS

1. Get the **IMEI number**

Command: Version

The device responds „IMEI: 123456789876543; GSM CSQ: 23; Software: V01.8601.17**“

2. Go to the website <http://mein.pushphone.de> and **sign on with your account**
3. On the internet page, click „**Manage**“ → „**Login**“

32. GPRS settings

To use the GPRS function, the user must set up the APN by sending the text message command. **What is APN?** The access point name (APN) is the name used to identify a GPRS carrier service in the GSM mobile phone network. The APN defines the service type that is provided in the packet data connection.

- Ensure that the SIM card in the Pushphone supports the GPRS function (an internet connection).
- The APN can be obtained from your local GSM operator

Command: S1, APN, User name, Password

Notes: Enter the APN, depending on the mobile phone provider (see table on next page). The user name and the password for APN are predefined by the provider. If no user name or password is required, the fields are left empty.

The device responds: Set APN OK! GPRS Connecting...

Example: S1, internet

"Internet" is the APN of the SIM card provider (O2 contract); Therefore the user must set their own APN for their own country in which the device is located. After sending the command, the device responds with "Set APN OK! GPRS Connecting". After sending S1 and the APN the device is online after a short time.

32. GPRS settings

NET	APN	USER NAME	PASSWORD
T-MOBILE	internet.t-mobile	t-mobile	tm
VODAFONE (contract)	web.vodafone.de		
VODAFONE (prepaid)	event.vodafone.de (web session)		
O 2 (contract)	internet		
O 2 (prepaid)	pinternet.interkom.de		
E-PLUS	internet.eplus.de	eplus	Internet

33. GPRS setting time interval

Befehl: TlxxS/M/H

The meaning of „xx“, The setting must be 2-digit and have maximum value 99, i.e. 01 - 99. XxS is the time interval in seconds with range (30 - 99), xxM is the time interval in minutes with range (01 - 99), xxH is the time interval in hours with range (01 - 99)
The position data of the device are transmitted to the server platform according to the set time. In this way a movement profile can be determined for the user.

Example: TI01M

The device responds: „Set updating time interval OK“ and the device then updates the position by 1 minute on the website.

Deactivate GPRS.

Command: S0

The device responds with „GPRS OFF“

Switch the GPRS back on.

Connect the internet page via GPRS for real time tracking, please send **S2**.

APN, IP, Port, Changing the IP & Port and deactivating the text messages

34. Checking the APN & IP, Port

Command: G1

The device responds: User name
„APN: internet
User name: xxx
Password: xxxx
IP: pushphone.renzel.net“
Port: 5050
GSM CSQ: 14
GPRS: 1,180S

35. Changing the IP and Port

Command: IP1,IP/Domain name,Port

Example: IP1,172.18.10.1,5050 or IP1,mein.pushphone.de,5050

36. Deactivating the text messages

Command: SMS0

Only alarms via GPRS are sent on the server platform, and without text message to the authorised numbers.

Activate text message and GPRS alarms, simply send **SMS1** (default setting)

Restarting the device and initialising - factory settings

37. Restarting the device

Command: reboot

The device is restarted without changing the settings

38. Initialising - factory settings

Command: reset!

Note: All settings are reset to the factory settings (only if you are absolutely certain). The device does not give any feedback.

Build-in memory

The device has an internal 8 MB Flash memory. It stores the GPS information if no GSM network coverage is available (i.e. areas that are very difficult to reach, mountainous terrain, underground areas, etc.). The device automatically sends GPS locations to the WEB server as soon as the GSM network is restored.

Delete stored tracking history data

Command: flush

The device no longer sends stored tracking history data to the tracking platform.

Notes on the Pushphone and disposal

39. Notes on the Pushphone

Caution:

Please follow the information and instructions for extending the life of the OK Pushphone:

1. Do not use or store the Device in dusty places.
2. Please do not unnecessarily place the device in overheated or undercooled areas.
3. Clean the device with a dry cloth. Do not clean with chemicals or detergent.
4. Do not dismantle or modify the device (or the guarantee expires)
5. Using other charging stations or charging cables causes damage.

39. Disposal instructions

If you want to dispose of your device, take it to the collection point of your municipal disposal company (e.g. recoverables depot). According to the Waste Electrical and Electronic Equipment law, owners of waste equipment are legally obliged to hand in waste electrical and electronic equipment to a separate waste collection facility.



The symbol on the left means that you should never throw the device in the household waste bin! Dispose of packaging materials according to the local regulations.

40. Guarantee

Dear Customer, We are glad that you have chosen to buy this device.

If a problem occurs, please call our hotline first on

0 28 74 / 910-511

or send us an email to:
info@pushphone.de

Our skilled personnel are often able to help.

However, if the error cannot be corrected in this way, please send the device in the original packaging (**please pack in an additional outer box**) to the following address:

**VKF Renzel GmbH
Im Geer 15
46419 Isselburg, Germany**

Guarantee repairs can only be carried out if proof of purchase (sales receipt) is enclosed. In case of a defect, please take the device in the original packaging and the proof of purchase/receipt to the trader from whom you purchased it.

41. Hardware specification

Inhalt	Content	Spezifikation
Maße	Mainframe Dimension	85 x 45 x 16 mm
Nettogewicht	Net Weight	Gerät (Device) 61 g + Ladeschale (Charging tray) 90 g
GSM Frequenz	GSM Frequencies	900 / 180 / 850 / 1900 Mhz
GPS Chipsatz	GPS Chip	U-blox 7 (Support AGPS)
GPS Empfindlichkeit	GPS Sensitivity	cold start: -148 dBm Hot start: -162 dBm
GPS Genauigkeit	GPS Accuracy	<2.5m
Zeit bis zur ersten GPS-Positionsbestimmung	Time to First Fix	cold start 32 s, warm start 11 s, hot start 1 s
Ladespannung	Charging Voltage	5V DC
Batterie	Battery	wiederaufladbar (chargeable) 3.7 V 900 mAh
Stromverbrauch im Standby	Standby Current	≤ 2 mA
Speichertemperaturbereich	Storage Temperature	-40 °C to + 85 °C
Betriebstemperaturbereich	Operation Temperature	-20 °C to + 80 °C
Luftfeuchtigkeit	Humidity	5 % - 95 %

Declaration of conformity



Konformitätserklärung

Für die komplette Konformitätserklärung nutzen Sie bitte den kostenlosen Download von unserer Website www.vkf-renzel.de.

Declaration of conformity

To view the complete Declaration of Conformity, please refer to the free download available on our website: www.vkf-renzel.de.



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