



DEU

PRODUCT MANUAL

# GPS-GSM-Tracker

## GT-170 / GT-280



# **GPS-GSM-Tracker**

## **GT-170 / GT-280**

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## YOUR NEW GPS-TRACKER

### **Dear Valued Customer,**

Thank you for purchasing your new SimValley GPS-GSM Tracker. With the SimValley tracker, you're always informed without ever being there. Thanks to an SMS text message with the position coordinates and a link to Google Maps, you will know where the tracker is within a few meters. If no GPS signal is available, the tracker uses the GSM mobile network to determine its position, even in buildings!

Please read the manual and follow the listed instructions to ensure optimal use of the tracker.

## What's Included

- GPS-GSM-Tracker
- Power Supply (100-240V and 5V USB)
- Charging Cable
- Battery (700 mAh)
- Software-CD
- Product Manual

You will also need a GSM mobile phone SIM Card (e.g. a prepaid card)

## Product Variations

GT-170: GPS-GSM tracker with SMS location & Geofencing

GT-380: GPS-GSM tracker with SMS location, Geofencing and SOS emergency features



### REFERENCE:

*This document is a quick guideline on the first steps you should take for basic operation. The supplied software CD includes a complete manual.*

# IMPORTANT INSTRUCTIONS BEFORE STARTING

## **Safety Instructions & Warranty**

- This manual provides you with the necessary operating instructions for this product. Be sure to keep this manual in a safe place, so you can access it at any time.
- This product includes a 2 year limited warranty on the perceived performance for normal use. Please note the terms and conditions!
- Only use the product in its intended manner. Any other use may cause permanent damage.
- Any rebuilding or modification of the product will affect product safety and may result in injury.
- Never open the product arbitrarily, unless to insert the SIM card and battery. Never attempt to repair the GPS device yourself.
- Handle the product carefully. It can be damaged if dropped from either high or low distances.
- Keep the product away from moisture and extreme heat
- Never fully immerse the product in water or other liquids



***ATTENTION: We are not liable for consequential loss from the mishandling of this product***





## **Disposal of Electronic Equipment**

Your new product was designed with great care and made with high quality components. Nevertheless, one day, the product will need to be disposed of in the proper manner. The symbol of the crossed out bin indicates that your product must be disposed of separately from normal household waste.

When the product reaches the end of its life, please bring in all electronics to the proper electronic waste recycling in your local community. This will prevent the possibility of harmful effects on humans and the environment, which can result from the mishandling of products at the end of their lifespan. The improper disposal of electronic equipment from the consumer may be subject to fines. Please consult the local authorities for your designated location.

**Declaration of Conformity**

Pearl Agency GmbH, hereby declares that the GT-170 and GT-280 GPS trackers conform with the essential requirements and guidelines.

PEARL Agency GmbH  
PEARL-Str. 1-3  
79426 Buggingen  
Deutschland  
26.07.2011

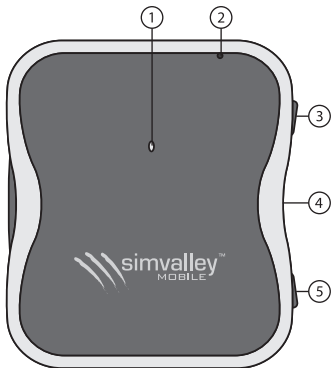


The full declaration of conformity can be found at [www.pearl.de](http://www.pearl.de). Click on the left side on the Support Link (FAQS, Driver & Co.). Then enter the article number in the search field.

## BASICS

### Product Details

1. Status-LED
2. Microphone\*
3. ON/OFF Button
4. Charging Port
5. Emergency Call Button\*



(\* Only GT-280)

**Preparation and Accessories Required**

You will need either a contract or prepaid SIM card to use inside of the GPS Tracker in order for it to send a text message with the location data and other necessary information to your mobile phone. Virtually all SIM Card service providers are compatible. Although the tracker will accept contract SIM card service, prepaid SIM cards are recommended.

The SIM card cannot have the mailbox feature setup and the PIN lock must be disabled. If mailbox and PIN-lock is activated, you must remove both. Insert the SIM card into the mobile phone and follow the instructions provided by your phone and service provider to disable the mailbox and/or PIN-lock.

## Overview of the Function

This device is a GPS-GSM Tracker which can be triggered by a SMS text message via your mobile phone. You can send an SMS text message with a specific command code to the phone number used in the tracker, to control its functions. Responses of the tracker can also be obtained via SMS text message. For example, you will receive a text message containing the current coordinates and a link to Google Maps, so you can easily find the position from either your Smartphone or a computer.

## Core Functions

The Tracker has three core functions:

- **Location:**  
On request by sending a mobile phone an SMS message with its current position data, including a link to Google Maps.

- **Tracking:**  
Upon request via SMS to periodically send the GPS Tracker's position automatically. You may specify the period yourself (e.g. you can have the tracker send you it's position every 5 minutes)
- **Geofencing:**  
If you activate the geofencing function, you can specify a radius (fence) around the current position of the tracker. Once the tracker exceeds your set radius, it will immediately send you a message

### **Emergency Call Function (only GT-280)**

The SimValley GT-280 Tracker also has an emergency call function. In an emergency, you can send up to three saved numbers by pressing the emergency button.

## **GPS and GSM**

The tracker uses GPS satellites (Global Positioning System) for precise determination of its position. Under certain circumstances, for example; in buildings, the tracker may not be able to receive a sufficient GPS signal. In this case, it will use the GSM mobile phone network to determine its position. Since the positioning by GSM is less precise than using GPS, it will only be used when GPS signal is not available.

## **Instruction Code and Phone Guardian Password**

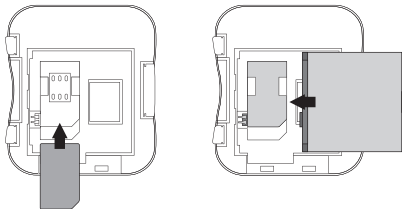
To control the tracker, you can send SMS messages that contain a specific command code. These short messages must come from a particular phone number, called Phone Guardian, which you will set beforehand. The tracker will ignore messages sent from another mobile phone. (Exceptions are described in the relevant sections)

The command code sent consist of a sequence of numbers and characters as well as a password – a 4 digit number code that you can also specify during setup.

## **Inserting the SIM card and Battery**

1. Loosen the tracker from the protective yellow rubber cover. Remove the 4 screws on the backside with a small Phillips screwdriver.
2. Open the case. If necessary, use a screwdriver to pry the casing carefully. Do not apply too much force or you may damage the housing. If the keys are loose here, see Step 5 (below).
3. Slide a SIM card into the slot. The gold contacts of the SIM card must touch each of the contacts on the card slot.
4. Insert the battery. Note: Insure the battery contacts line up with the points on the housing
5. If both buttons are loose, put it back into the recesses. Make sure the emergency call button (on the GT-280 or the black button on the GT-170) and the on/off button do not change.
6. Reconnect the housing and tighten the screws back in place. Then slip on the protective cover.





### Charging the Battery

Connect the charging cable to the charging port on the tracker and connect the cable to an available USB port on your computer or the USB AC adapter. The LED will turn on to indicate that the tracker is connected. Once the charge is complete, the LED will turn off, indicating a complete charge.



**NOTE:**

*The AC adapter charges the battery faster than the USB charger*

## Turning On and Off

Press and hold the On/Off button for a few seconds to turn on the GPS tracker. Hold the button down again for a few seconds to switch the tracker off.

## Setup and Settings

- **Guardian Phone**

The "Guardian Phone" is the mobile phone from which the control signals are sent to the tracker and receive the SMS messages. To establish the guardian phone, send an SMS message with the content to the tracker's number (the number of the SIM card you inserted into the tracker):

**\*#188#AAAA#+49XXXXXXXXXX#**

If you have set a 4 digit password, replace it with AAAA. In the meantime, you must use AAAA if you have not changed it. The XXX stands for the desired phone number. Make sure the correct area code/country code, instead of the prefix 0.



**EXAMPLE:**

Suppose you have the password changed to 3333 and want the phone with the number 0160/12345678 setup as a Guardian Phone. The command would be:

`*#188#3333#+4916012345678#`

- **Password**

The password is a 4 digit number combination that you send with each command. The factory default password is 0000 (4 zeros). You should change your password directly from the primary settings. Select a random combination of number.

**ATTENTION!**

*Keep the 4 digit password in a safe place to refer to incase you ever forget your password*

To create a new password, send an SMS to the tracker with the following contents:

**\*#088#AAAA#BBBB#**

AAAA stands for the old password for the new BBBB

- **Date and Time**

The current date and current time is also a set with an SMS. To do this, send the following SMS to the tracker:

**\*#55#AAAA#JJJJ-MM-TT#hh:mm:ss#**

AAAA stands for your password, YYYY for the year, MM for the month, DD for the day, hh for the hour, mm for the minute, ss for the second

## DETERMINING THE LOCATION

With the positioning function, you can request the current location of the tracker. Please send an SMS message with the command code and you will receive an SMS reply with the current position of the tracker

### **Calling for the Location**

The command code for the determination of the position is:

**\*#88#AAAA#**

AAAA stands for the 4 digit password

## SMS Reply

In response, you will receive an SMS message with the following data.

Lat: The current Latitude  
Lon: The current Longitude  
Date: The current date  
Time: The current time

A link from Google Maps is also included



**NOTE:**

*If no GPS signal is available, the tracker sends the last recorded GPS coordinates and information in addition to GSM positioning. Use the supplied software to determine the location via GSM.*

## TRACKING, GEOFENCING AND MORE FEATURES

For additional notes on Tracking, Geofencing, the emergency call function of the GT-280 and additional functions, see the complete manual on the bundled CD.

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# COMMAND OVERVIEW



## NOTE:

*To quickly recall the command codes, save them as an SMS template on your mobile phone*



## Caution:

Instead of AAA, you must always use the self-chosen password!

Funktion	Befehlscode	Anmerkungen
Location	*#88#AAAA#	
Activate Tracking	*#11#AAAA#y#	y = Interval in minutes
Deactivate Tracking	*#011#AAAA#	
Activate Geofencing	*#77#AAAA#x#y#	x = Radius in km (0.1, 0.5, 1.5) y = Interval in minutes
Deactivate Geofencing	*#077#AAAA#	



<b>Funktion</b>	<b>Befehlscode</b>	<b>Anmerkungen</b>
Activate Sleep Mode	*#44#AAAA#y#	y = Wakeup interval in hours
Deactivate Sleep Mode	*#044#AAAA#	
Activate SMS to Email	*#46#AAAA#YYYY#ZZZ@ZZZZ.ZZ#	YYYY = Provider-Number ZZZZ@ZZZZ.ZZ = E-mail address
Deactivate SMS to Email	*#046#AAAA#	
Retrieve Status	*#22#AAAA#	
GPS Status Check	*#45#AAAA#	
Guardian Phone Set	*#188#AAAA#+49XXXXXXXXX#	XXXXXXXXX = Phone Number
Password Set	*#088#x#y#	x = current password (4-digit) y = new password (4-digit)

Funktion	Befehlscode	Anmerkungen
Date/ Time Set	*#55#AAAA#JJJJ-MM-TT#hh:mm:ss	JJJJ = Year MM = Month TT = Day hh = Hours mm = Minutes ss = Seconds
Add contacts to SOS (only GT-280)	*#288#AAAA#+49xxx#+49yyy#+49zzz#	xxx, yyy, zzz = Phone Number. Leave blank to delete number
SOS Contact Status (only GT-280)	*#277#AAAA#	
Call back (only GT-280)	*#66#AAAA#	

## FCC Statement

1. 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.
  - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### 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.

## SAR Information Statement

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. \* Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is **1.120W/Kg** and when worn on the body, as described in this user guide, is **0.096 W/Kg**. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID: **WNKUMEOX-K200**

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular

Telecommunications Industry Association (CTIA) web-site at <http://www.wow-com.com>. \* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

### Body-worn Operation

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 15 mm must be maintained between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.