

Quick Configuration Guide for Telic Picotrack – V3.2

Please check the version number of this document against the two first digits of the used Picotrack software version.

This document describes the basic commands to configure a Picotrack . After the configuration you will be able to check the basic features of the Telic Picotrack in a quick and efficient way. Finally you will get a description of the format of the event messages you will receive on your server, sent by the Picotrack via the GPRS(TCPIP) connection. **Please just pass through the following steps to get a fast result.**

1. Please **put an activated SIM-card** into your Picotrack with deactivated PIN or PIN set at "0000".
2. **Connect your Picotrack via the Telic USB cable to your charger (or car power supply)** to ensure good power supply conditions.
3. **look at the LEDs on the front side:**
 - **important for GSM communication: left LED blinking once all 2 secs.** -> booked into the GSM network and proper communication via GSM
 - **middle LED: yellow** means charging; **green** means fully charged; **red** flash means Picotrack needs to get recharged
 - **right LED: 1x yellow Flash** means no GPS; **2x green flash** means bad GPS; **3x green flash** means good GPS;
4. **send the 2 necessary configuration SMS to the phone number of the SIM-card in the Picotrack (e.g. from a mobile phone) precisely in the following way (please change the coloured parameters only according to your needs; please use the last 6 digits of the Picotrack serial number for "xxxxxx" being labelled on the housing):**

a. Basic event configuration SMS:

0111xxxxxx,,,,,120,5000,,00000000,,,,,,,,,,,,,,,,,,,,,30,6

Which means:

120 Device sends **all 120 seconds** a position messages (independent of further event configuration)

5000 Device sends a position message 5.000 meters after the last event message

30,6 Device sends a position message as soon as the direction changes more than 30° compared to the direction of the previous position message, provided the speed at that moment is higher than 6km/h

b. GPRS parameter configuration:

01b1xxxxxx195.243.214.67,5002,internet.eplus.de,eplus,eplus,1,,0

Which means:

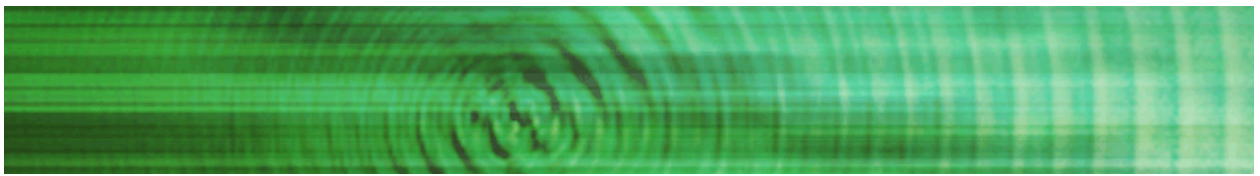
195.243.214.67,5002 is the IP address and port number of your TCP/IP server

internet.eplus.de,eplus,eplus are the provider access data for the GPRS communication (APN, user name and password)

After reception of the basic and GPRS config. SMS, the Picotrack will send a confirmation SMS back to the sender (e.g. to your mobile phone). xxxxxx stands for the last 6 digits of the IMEI of your Picotrack.

5. **Receiving the messages from the Telic Picotrack on your server socket**
(during the TCP/IP connection to the server, the left GSM-LED of the Picotrack will blink twice all 2 secs.)

Messages sent by the Picotrack have the following structure and key info:



^032031761599,030408145540,0,030408065431,115867,480333,3,0,192,14,,,587,100114124,,00,00,180,0

Which means:

^	ASCII-equivalent of the length of GPRS data string
99	message type, here: time periodical message
030408145540	DateTime stamp of the message (in UTC; here: 3 rd April 2008 at 14:55 and 40s)
030408065431	DateTime stamp of the GPS position (in UTC; here: 3 rd April 2008 at 06:54 and 31s)
115867,480333	Longitude , Latitude of the GPS geo-position (here 11,5867°E; 46,0333°N)

6. Now you can parse out the key information and log it accordingly for check of position.

7. Usage of the implemented sleep modes for increase of standby time due to reduced power consumption:

You can use **two types** of sleep modes:

a) Time periodical sleep mode:

In this mode the Picotrack will wake-up all x seconds (configuration of periods of < 600 seconds are not recommended), sends the most actual and receivable position and get back to sleep after.

Related Configuration:

0111xxxxxx,,,,600,,,40000000,

here the 600 stands for the 10 Minutes of time period and the first digit of the 40000000 stands for the time periodical sleep mode.

b) Sleep mode with motion sensor:

In this mode the Picotrack will wake-up after recognition of the status "motion" and will keep awake until the recognition of "stationary", after which it goes asleep again.

During the "motion" period the Picotrack works in the identical way as in full power mode.

Related Configuration:

0111xxxxxx,,,,,,50000000,

here the first digit of the 50000000 stands for the sleep mode with motion sensor.

To come back to the full power mode, you can configure the Picotrack as follows:

0111xxxxxx,,,,,,00000000,

The first digit of 00000000 stands for the full power mode.

For any question and suggestion please feel free to contact us.

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Note: Specification is subject to change without prior notice. No responsibility is taken for the correctness of this information.