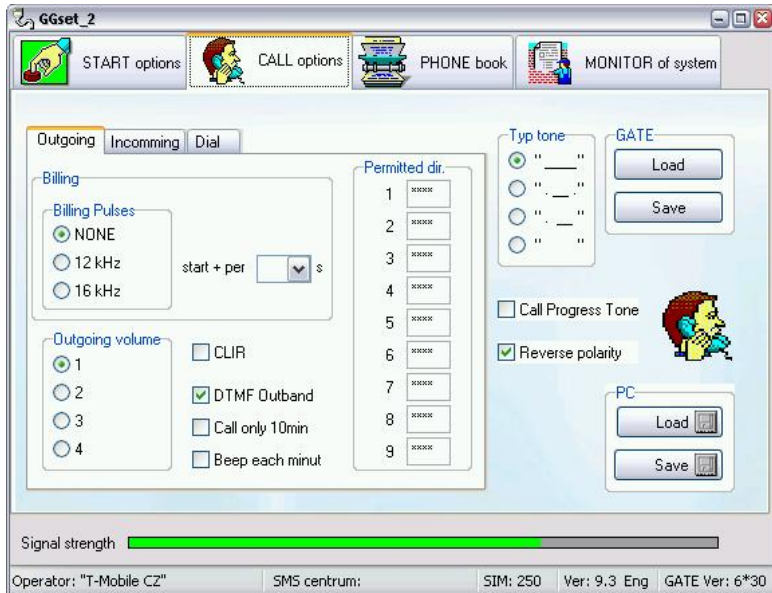


Configuration software for BG analog Brave

# GGset



User Guide v1.1

## **Install and uninstall of the programm**

Make a copy of 2 files ( with end .exe and .ini) from selected language variant on CD into some directory in your Computer. During first programm start have been created all needed files in this directory. When you copied file \*.exe only the english version will be created.

By erasing of this directory will be uninstall programm completely.

## **Installation of USB driver**

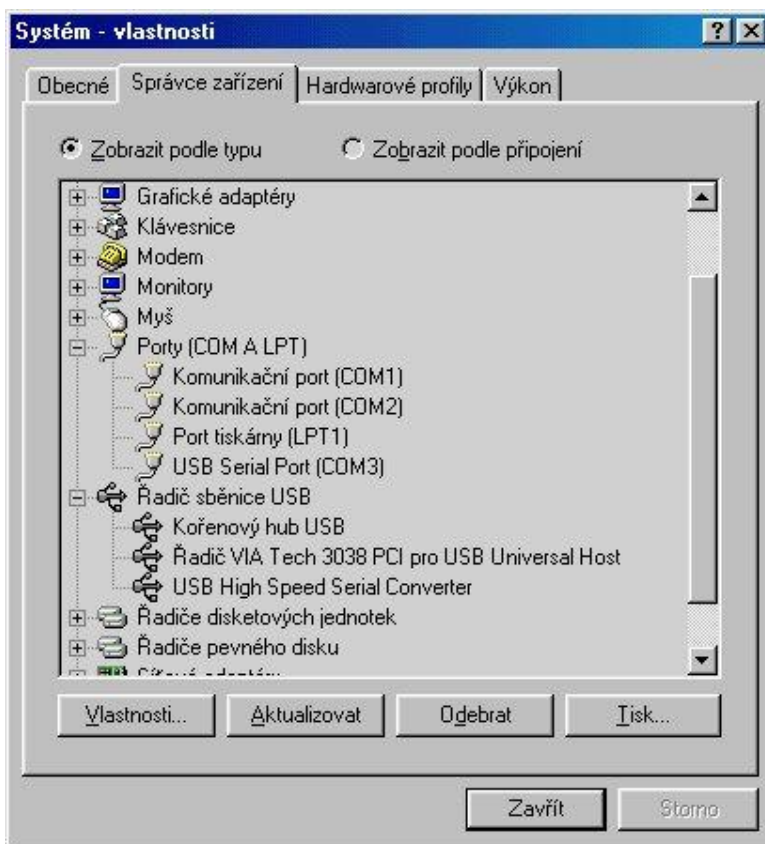
Switch ON the Mini Gate. Connect gateway by USB cable to the computer via the USB option (packed with unit). When is not already installed on PC appropriate USB driver (FTDI) will be shown at bar of your PC warning of new Hardware detection and start usual process of needed software installation. Select searching required sw automatically and select installation from other place. As other place select attached CD ROM and directory USB driver. Installation will be done automatically. It must be ended by announcement „ New Hardware is ready to use“.

## **Setting of COM port parametres**

After USB driver installation you should select appropriate COM port for communication with Mini Gate. When you know your PC COM port distribution the situation is easy. Simply select during programm run ( via follow) the new one.

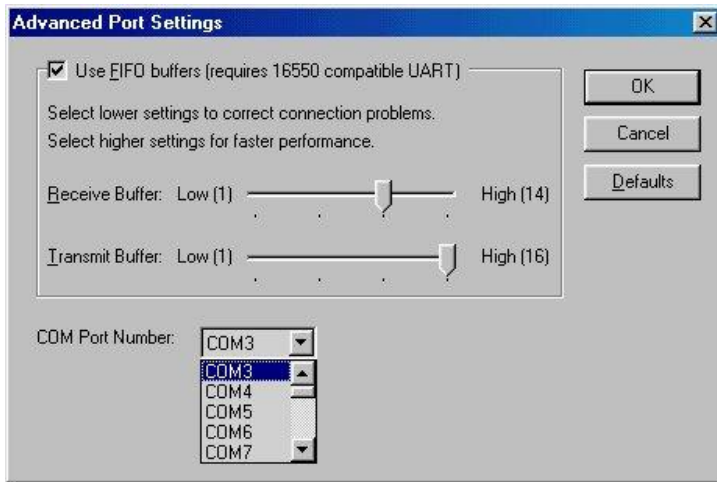
## Properties setting of installed COM port – number of COM port you can program in Systém supervisor.

Click to “+” at line Ports. It is open submenu Ports where is



at the end mention USB serial port.

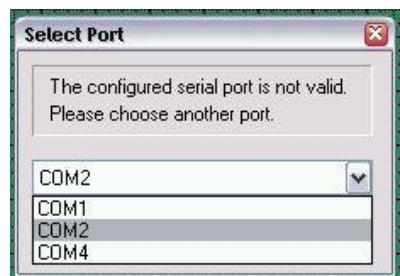
Select by mouse or keypad this row (USB serial port) to be marked (for example : blue) and press button „properties“. In follow window select Folder "Port settings". Press button **ADVANCED**.



Here select number of COM port which will be used for access to application. ( for instance select COM3 then software will communicate with application via port COM3). After a few OK button pressing is properties setting finished successfully.

### Programm Start

Start GGset program and select appropriate COM port where is Gate connected. The program can connect to the gateway, which is registered to GSM network (green LED is off, yellow LED flashing by signal strength). **After programm start ( in active mode – via follow) Gate is blocked for calls. Incoming calls are rejected and outgoing calls get busy tone. The BGB Gate set up new parametres until 30 seconds after GGSET ending ( BGB restart).**



## Basic program description

Program contains a few Folders (buttons) which include similar parameters. Under Folders is status bar display operational information about connected gate. Some parameters can be gray - inactive. They are designed for another types of gates.

The screenshot shows the 'GG SET' software interface. At the top, there are four main folders: 'START options', 'CALL options', 'PHONE book', and 'MONITOR of system'. The 'CALL options' folder is active, showing settings for outgoing and incoming calls. The 'Outgoing' tab is selected, displaying options for Billing (None, 12 kHz, 16 kHz), Outgoing volume (1-4), and checkboxes for CLIP, Call only 10min, and Beep each minute. A 'Permitted dial' list shows numbers 1-9 with corresponding codes. On the right, there are 'Type tone' options, 'GATE' Load/Save buttons, and checkboxes for 'Call Progress Tone' and 'Reverse polarity'. At the bottom, there is a 'Signal strength' bar and a status bar showing 'Operator: T-Mobile CZ', 'SME contact: +4209030252000', 'SMP: 290', 'Ver: 1.0 Eng', and 'GATE Ver: 1.70'. Callouts point to various elements: 'Parameters for Gate start' points to the 'START options' folder; 'Call parameters' points to the 'CALL options' folder; 'Phone book (here unused)' points to the 'PHONE book' folder; 'GSM network and Mini gate operation monitoring' points to the 'MONITOR of system' folder; 'Used GSM operator and additional info' points to the status bar; 'GSM signal strength' points to the signal strength bar; and a detailed note points to the status bar area.

Parameters for Gate start

Call parameters

Phone book (here unused)

GSM network and Mini gate operation monitoring

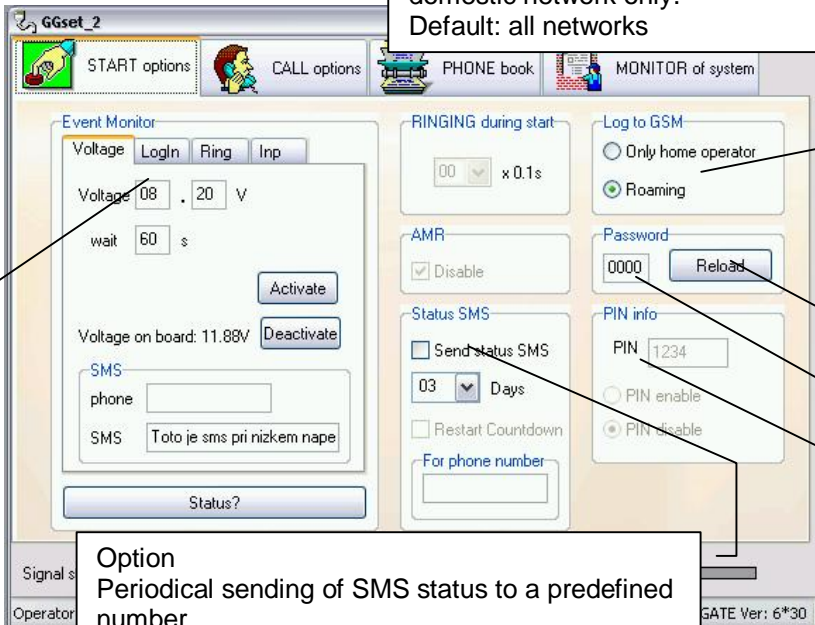
Used GSM operator and additional info

GSM signal strength

During registration of Gate to GG SET is showing here symbol „searching“. During serial communication is here yellow point. When is ERROR the point is red.

# Folder START options

GSM network registration. You can allow all networks (roaming) or domestic network only.  
Default: all networks



**Option**  
Periodical sending of SMS status to a predefined number  
format of SMS:  
Date and time, data of GSM network (signal strength, BTS etc.), device temperature, supply voltage in the device, the last number dialed.  
SMS is sent every time by preset number of days

PIN information. PIN and its setting is possible change only by connected analog phone after inserting password.

Password to access connected Gate. When is incorrect then you cant change any setting. (parametres and phone book)  
Default: 0000

Command for parametres reloading when wrong password was inserted.

Panel monitor events (see next page)

## Panel event monitor

Gateway sends incurred event by set SMSs to a specified phone number.

The screenshot shows the 'Event Monitor' interface with the 'Voltage' tab selected. It features a 'Voltage' section with input fields for '08' and '20', and a 'wait' field with '60'. Below these are 'Activate' and 'Deactivate' buttons. A status indicator shows 'Voltage on board: 11.96V'. The 'SMS' section includes a 'phone' field and an 'SMS' field containing the text 'Low voltage on gate|'. At the bottom is a 'Status?' button.

**If the supply voltage is lower than specified.**

Adjusted voltage (8.2V)

Minimum time of low voltage

Activation/deactivation voltage monitoring.

SMS and phone number to which SMS will be sent

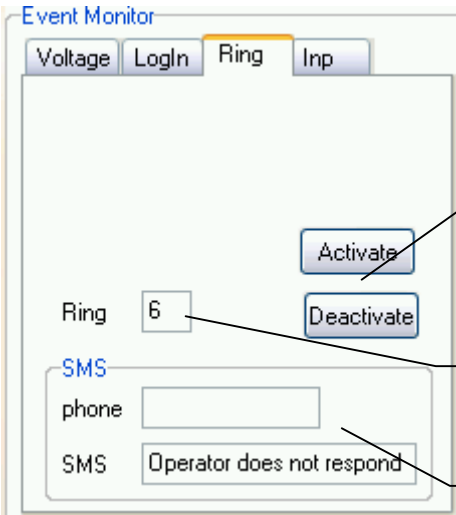
Determining status and set of event monitor

The screenshot shows the 'Event Monitor' interface with the 'LogIn' tab selected. It features 'Activate' and 'Deactivate' buttons. The 'SMS' section includes a 'phone' field and an 'SMS' field containing the text 'Gateway is registered to the'. The 'Voltage' section is visible but not active.

**At the moment when the gateway logs into the GSM network.**

Activation/deactivation monitoring of logging into the GSM network.

SMS and phone number to which SMS will be sent



**If the call isn't picked up in less than the set number of rings.**

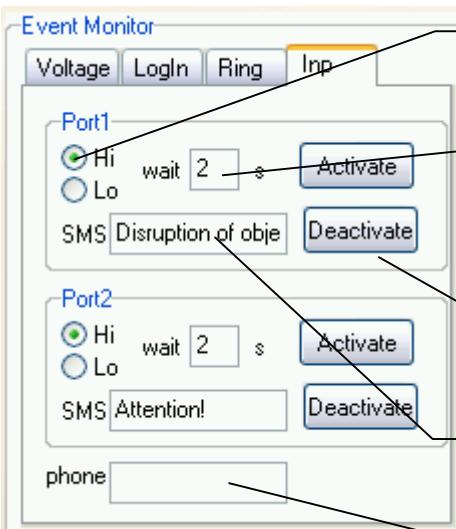
Activation/deactivation monitoring number of rings.

Number of rings

SMS and phone number to which SMS will be sent

### When changing state of the Port1, Port2

Note: necessary hw option (board inputs)



SMS by change input Hi/Lo

Necessary duration of change for sending SMS.

Activation/deactivation of Port1

SMS of Port1

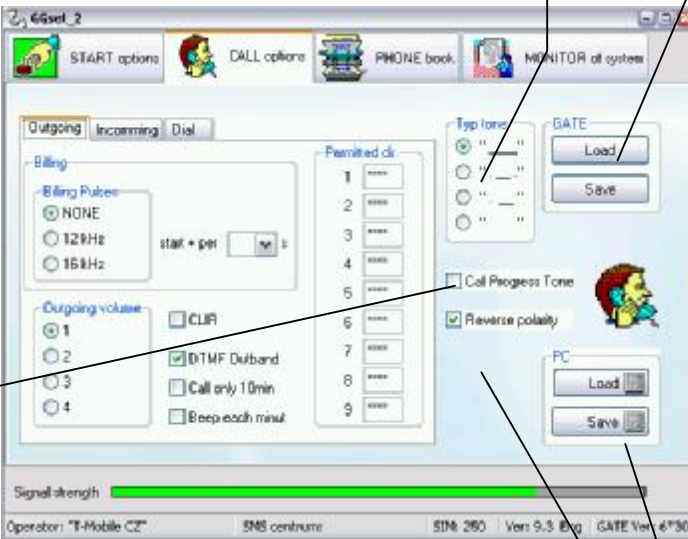
Telephone number for both ports



## Folder CALL options

Reading and saving all parameters to Gate. It is valid also for parameters from Folder „START“. The buttons are unavailable when you insert wrong

Dial tone setting.  
Default: continuous (permanent) tone



Activation audio information from the GSM network.  
Default: off - generate local ringing tone (see manual)

Polarity change during ON/OFF HOOK.  
Default: OFF

Loading and saving parameters into Computer

Folder CALL options contain other subFolders:

## Outgoing Call

Loudness in outgoing direction (1-4)  
Default: 1

Setting of tax (billing) pulses 12 or 16 kHz  
Default: OFF

When billing pulses are ON the first puls is sent when call is pick up. Further pulses may be send in preprogrammed periods  
Default: 1 pulse only when call is pick up

The screenshot shows the 'Outgoing' settings menu. It includes sections for 'Billing' (with 'Billing Pulses' set to NONE and a 'start + per' dropdown), 'Outgoing volume' (set to 1), and 'Permitted dir.' (a list of 9 digits, each with a 'xxxxx' field). Below these are checkboxes for 'CLIR', 'DTMF Outband' (checked), 'Call only 10min', and 'Beep each minut'.

9 memories for permitted directions  
Permitted direction may be 1-4 digits of number beginning..  
Other numbers will get busy tones.  
\*\* , which means various numeral may be at last digits onlys.  
Default: All calls possible

Beeps setting every minute to the call as notification for GSM call.  
Defaultnē: OFF

Call duration limit for 10 minutes - see manual

Method of encoding DTMF during a call – see manual

**CLEAR service activation. When you want to use it please check availability at your GSM operator.**  
Defaultnē: OFF

# Incoming Call

Activation CLIP feature.  
Default: CLIP FSK Bell

The image shows a configuration window with three tabs: 'Outgoing', 'Incoming', and 'Dial'. The 'Incoming' tab is selected and highlighted with a yellow border. Inside the window, there are two sections. The first section is titled 'CLIP' and contains two radio button options: 'None' and 'CLIP FSK Bell'. The 'CLIP FSK Bell' option is selected, indicated by a green dot. The second section is titled 'Incoming volume' and contains four radio button options labeled '1', '2', '3', and '4'. The '1' option is selected, indicated by a green dot.

Loudness in incoming direction (1-4)  
Default: 1

# Dialling

Type of detection is not for this type of gate active

Dial delay for preprogrammed time (decimal sec 00-99)  
Default: 0

Number of dialled numeral, after its is dial send immediatelly  
(dial completed)  
Default: OFF

Waiting for dial after pick up . After time out is busy tone,  
eventually reverse polarity (call end)  
Default: OFF

Waiting for last number (01 to 15 sec). After time out is sent  
out dialled number.  
Default: 6 seconds.

The screenshot shows a configuration window for dialing. On the left, there are two sections: 'Dial' and 'Confirmation char.'. The 'Dial' section has three radio buttons: 'DTMF/PULSE', 'PULSE', and 'DTMF', with 'DTMF' selected. The 'Confirmation char.' section has three radio buttons: '#', '\*', and '.', with '#' selected. Below these is a checkbox labeled '00 = +' which is currently unchecked. On the right, there are several rows of configuration options, each with a dropdown menu and a '\$' symbol: 'Waiting for number' (set to '01'), 'Waiting for dial' (set to '..'), 'Digits for dial' (set to '..'), and 'Dial delay' (set to '00'). Lines connect the text boxes above to these specific settings in the interface.

Confirmation character. After its dial is sent out dialled number. Possible set without confirmation character. CAUTION! Then you can not programing via phone!  
Default: "#"

„00“ dial in number begining will be changed to “+”  
Default: OFF

# Folder Phone book

Work with phone book on SIM card inserted in Gate. For this type of gate is not used.

The screenshot shows a mobile phone interface with a 'PHONE book' application. The interface includes a menu bar with 'START options', 'CALL options', 'PHONE book', and 'MONITOR of system'. Below the menu is a table with columns 'Name' and 'Phone'. The table contains two entries: 'ALPHABET' and 'Lubox'. To the right of the table are 'Load' and 'Save' buttons. Below the table is a 'Verify Phone Book' button. At the bottom, there are 'Find', 'Find Next', and 'Sort' buttons. A 'Signal strength' indicator is visible at the bottom left, and system information like 'Operator: T-Mobile CZ' and 'SMS-centrum: +420603052000' is at the bottom.

Callouts and their corresponding features:

- Name field max. 14 characters
- Loading and saving phone book on SIM
- Size of phone book
- Phone number field.
- Number searching
- Name searching
- Loading and saving phone book to PC
- Searching start
- Searching next in order
- Phone book sorting up alphabet
- Format checking

## **Work with phone book**

The work with phone book is the same like work with table. By button „Insert“ on keypad of PC insert new rowsto cursor place. By button „Delete“ erase row contain. When you erase name as same as number from row then after cursor move the empty row is erased. During work with phone book is running automatic format control.

The phonebook you can load and save in your PC where you can edit saved data. After finishing phone book adjustment we recommend use button for checking data format.

Saving to SIM takes a time particularly in phone book longer than 100 records. (a few minutes). The process of phone books saving is shown on scale at bottom of window. During this action are control elements blocked.

The lenght of phone book may be various however to SIM will be saved only data up capacity of SIM card. (capacity info at bottom bar).

# Folder GSM network monitoring and gate operation (for service purpose)

The Folder has 2 subFolders:

## System monitor

The screenshot shows the 'System Monitor' window of the GGate\_2 software. The window title is 'GGate\_2' and it has several icons in the top bar: 'START options', 'CALL options', 'PHONE book', and 'MONITOR of system'. The main area displays GSM signal monitoring data, including several AT commands and their responses:

```
+CPBR: [1-25],20,14
OK
+CPBR: 250,"1*02#0000#7000000000",129,"PARAM1"
OK
+CPBR: 214,"0000#0000#00000000",129,"PARAM7"
+CPBR: 215,"000#001#000#000#00",129,"PARAM6"
+CPBR: 216,"#####",129,"PARAM5"
+CPBR: 217,"#####",129,"PARAM4"
+CPBR: 218,"#####",129,"PARAM3"
+CPBR: 219,"000#0000#0000#00#",129,"PARAM2"
OK
+CSQ: 18,99
```

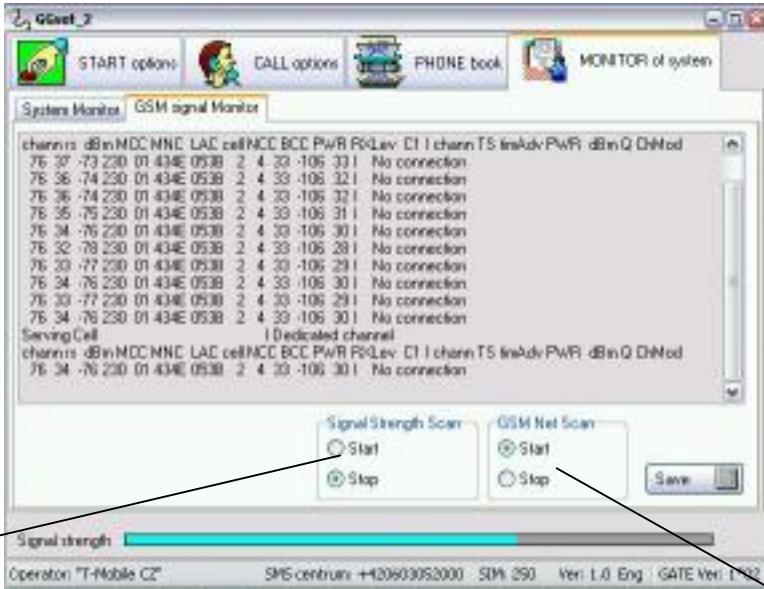
On the right side of the window, there are several control buttons: 'Monitor', 'Pause', 'IMEI', 'Mode' (with 'Active' and 'Passive' radio buttons), and 'Save'. Lines connect these buttons to external text boxes:

- 'IMEI of GSM modul' points to the 'IMEI' button.
- 'GSM modul profile' points to the 'Monitor' button.
- 'GSM modul version' points to the 'Pause' button.
- 'Saving of recorded data into file. (Possibility to send for further investigation)' points to the 'Save' button.
- 'Switching active/pasive mode. Active mode is design for programming gate parametres. To monitor gate operation you have to switch into pasive mode. CAUTION! We do not recommend during pasive mode send any commands to gate (loading or saving parametres, checking of GSM modul parametres, etc..). It can cause communication error which blocks the gate!!!! Default: active mode' points to the 'Mode' button.

Switching active/pasive mode. Active mode is design for programming gate parametres. To monitor gate operation you have to switch into pasive mode.  
**CAUTION! We do not recommend during pasive mode send any commands to gate (loading or saving parametres, checking of GSM modul parametres, etc..). It can cause communication error which blocks the gate!!!!**  
Default: active mode

## GSM monitor

Features mention bellow we recommend use in active mode only. We recommend to use it in pasive mode for service staff only!



Start and stop fast scanning of GSM signal strenght. The programm shows change of GSM signal as quickly as GSM modul gives the info. It is very useful for finding best position for placing GSM antenna.

By start of this feature will be in 5 seconds interval monitor connection parametres between gate and appropriate BTS ( Cell). It helps you to investigate reasons of eventual problems in cooperation between GSM network and Gate.