IQtronic
Solutions to control and save energy

IQTS-GS300

firmware documentation v.2
(for firmware v1.0)

User Guide

Socket controlled by SMS, making a call, IVR self service and Bluetooth terminal, with universal external input.

Contents

Acknowledgements

Thank you that you have purchased this IQTS-GS300 produced by IQtronic technologies Europe Ltd, the real manufacturer providing the unique and unrivalled products. Our company has produced IQ sockets for already 10 years and has delivered them throughout the world. Our products always offer you a lot more. But consider by yourself...

1 Product features

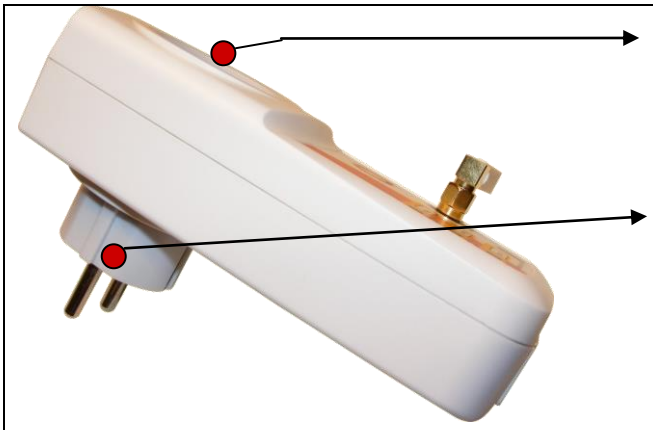
IQTS-GS300 is a highly sophisticated device intended to control electrical appliances connected to device's output power socket by sending SMS messages and making calls to device's SIM card number by means of a mobile phone. IQTS-GS300 can be also controlled wirelessly via Bluetooth using IQcontrol software terminal. An interactive voice self service (IVR) is another way to control your device.
It features also an universal input to connect external accessories: up to 8 temperature and humidity sensors or a wireless adapter for connecting up to 10 additional sockets. It features as much as 105 implemented SMS commands.

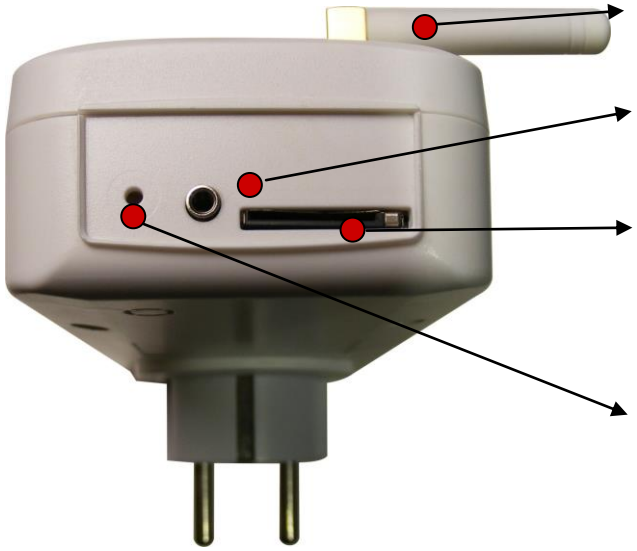
The output of the device is a **230V** socket with the maximum current capacity of **16A with the internal switching element rated to 30A! It can be used for capacitive loads – e.g. switched power supplies as well.**

Among others, the product has the following interesting functions:

- Turning electrical appliances on and off by SMS messages or by making a call to device's internal SIM card number.
- Automatic control electrical appliances on and off at predermined time by means of a scheduler or at a user-specific time
- Sending automatically an alert on power failure and restore
- Restarting appliances, such as servers
- Monitoring the external input status: A/D - monitoring electric fences, the Log1/Log0 level, temperature and humidity
- Thermostat function
- Alarm function: temperature alarm, humidity alarm, A/D, or Log1/Log0 change
- Alarm in case of a GSM signal jamming
- Up to 12 alarm numbers, each of the numbers can be set for a different event
- Time scheduler function, up to 30 events
- Automatical logging of all events into the internal memory
- **Interactive voice self service that can be customized by a user**
- Configuration via Bluetooth with a professionally designed IQcontrol software terminal with an intuitive usage
- One Administrator password and up to one thousand user numbers
- Texts of commands and responses can be customized by user
- Option to save and restore of the configuration, to download event log file
- User numbers can be uploaded from a text file
- Upgradeable firmware
- Possibility to change the rights of SMS commands
- Supports control from Internet SMS gateways
- Sending of SMS status via GPRS (TCP or UDP)

- **Advanced integrated navigation HELP**
- Option to control by means of ANDROID application
- Connector for external antenna for areas with poor GSM signal
- Option to insert more commands in one SMS message (160 characters)
- Two independent actions can be set for incoming call.

	**Output power socket:** You can control the socket by sending SMS messages, making a call, by the use of a manual push button, or automatically using of the scheduler. **Power plug:** It is used to supply power to the device itself and to the output power socket.

	**Antenna:** 1dBi , can be replaced with higher gain for areas with poor GSM signal **Universal input:** For connecting accessories. **SIM socket:** Push-push type socket, for inserting and securing a SIM card. **User push button:** For turning the output power socket on and off manually or for resetting configuration to factory default values.

2 Installation

2.1 Inserting SIM card

- Insert the SIM card into the GSM slot as shown in the figure below.
  The SIM card can be removed by re-pushing.

Insert the SIM card into the slot and push it gently until you hear or feel a click, so it becomes locked in the slot.

To remove the SIM card from the socket, push gently on the card, and it will pop out slightly; then pull it out of the slot.

WARNING!

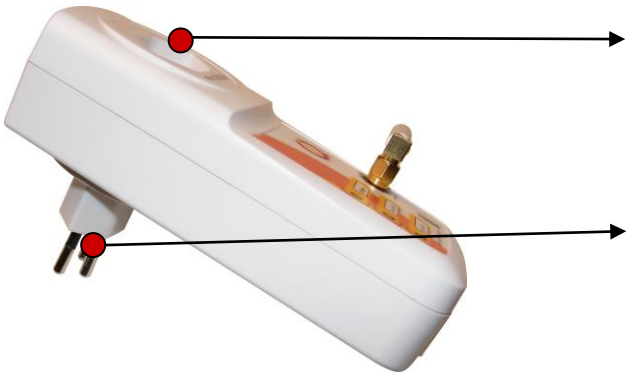
PIN code protection of SIM card must be disabled prior using it in IQTS-GS300!

Note...

Please make sure that the SIM card contains no unread or saved SMS messages. All SMS messages will be deleted automatically, but it can take several minutes based on the quantity of messages.

2.2 Plugging into a 230V electric socket

IQTS-GS300 is produced for several countries of the European Union, and is delivered with appropriate compatible socket for each of the countries. Therefore, simply intuitively plug your device into a 230V electric socket with the protection rating of max. 16A.



Controlled output power socket: Connect your electrical appliance here.

Input plug: Plug your IQTS-GS300 into an electric socket.

WARNING!

Please respect the maximum 16A rating of output socket; otherwise internal relay can be damaged. In case the higher current is required, it is recommended to use an external contractor.

- Plug your IQTS-GS300 into a 230V AC socket.
- All indicators start blinking for a short time, it may takes up to 25 seconds after internall supercap is fully loaded.
- Once the test has been successfully run and factory default settings have been preconfigured, the red indicator **POWER** will switch on.
- The GSM indicator flashes regularly (green) – if search for a network is in progress, then after automatical login it will start blinking for a short time, approximately once in two seconds.
- The indicator RELAY will /will not light up permanently, if the socket is turned on / off.
- Now, your IQTS-GS300 is ready to be used.

Please refer to chapter 10.2 Error conditions, LED indicators *in case of any other indications.*

2.3 Explanatory Notes to Commands

To control IQTS-GS300 in your language, please select the language version, as shown in chapter 5.1 IQControl subprogram. The device comes from factory configured for the English language; and therefore particular commands are described in both languages.
Device contains built-in help system. If you send a message containing text **HELP** to number of SIM insterted in device, you will get in response the control commands, and in response to **CONFIG** you will get the configuration commands. If you need to know the syntax and description of any command, use the SMS message **HELP=<command>,** e.g. HELP=Restart and you will get description of a particular command.
All commands are sent in SMS messages to the SIM card number inserted in device.

Commands have the following format:
pinCOMMAND - e.g. 1234Turn off – if the PIN protection was activated *(see chapter 4* Advanced Settings*)*
COMMAND - e.g. Turn off – *with unconfigured PIN (factory default)*

Command Nr.	01		
Text	TurnOn		
Function	It turns on the output power socket.		
Response	TurnedOn		
Access Rights	User/Admin	License	Base

Command Number: It is the system specification for a command that is fixed, and so it cannot be changed. You can only modify any text in your device; if you change for instance ***TurnOn*** to **MyCommand**, and you would like to make further changes of this command's name, you need to know the number of the original command in order to identify that command.

Text: A command in the form of a text string, in English as factory default language.

Function: It specifies the function of the particular command.

Response: The device will give a response if the command is entered in the correct form.

License: **Base** license is included in the price for the product, **Medium** and **Full** – for a License fee you will obtain a License key to be entered in your device by means of an SMS message or via BT IQcontrol terminal software and then the commands and functions of the particular License will be activated.

Access Rights: Admin, this command can be only used by the pre-configured Administrator; in case the Administrator has not been pre-configured, any number, i.e. anyone, can control and configure the device and is then considered to be the Administrator.
User - this command can be also used by users from the user list - up to 1000 numbers.

Describtion of control and configuration of IQTS-GS300 is divided into three parts, each suitable for a specific user group.

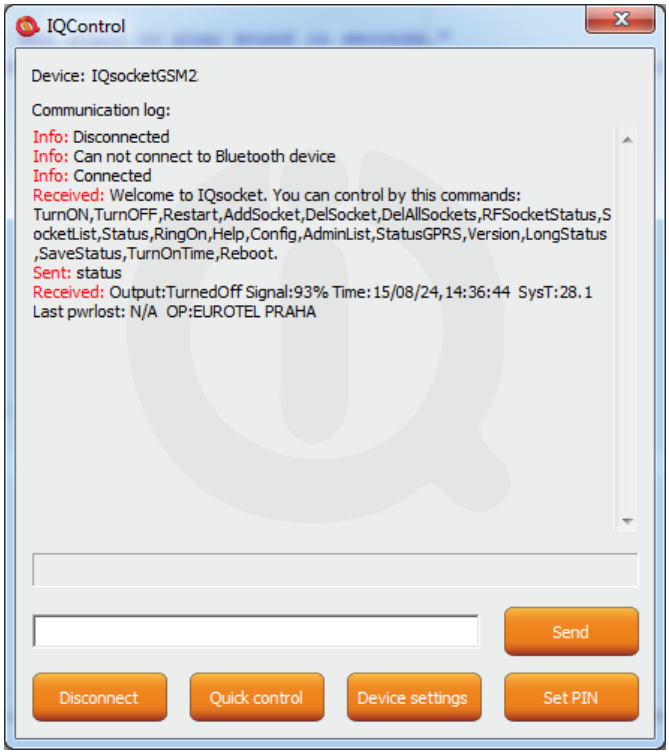
1. Basic part is suitable especially for those users who wish to use the basic functions as quickly as possible. It is indicated by the green square located on the right side or at the top of the page.

2. Advanced part contains advanced functions such as security, GPRS, time intervals, alarms, etc. It is indicated by the yellow square on the right side and in the middle part of the page.

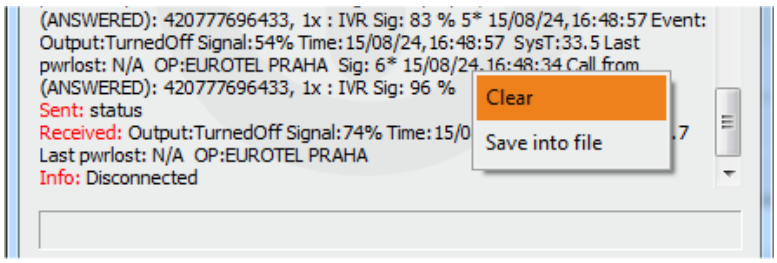
3. Expert part is particularly appropriate for those users who wish to get the maximum of the product. It presents control by the use of the smart application IQcontrol for Android and IQcontrol Suite for Windows. Furthermore, it provides information on the voice self service or how to create an own voice self service, how to edit the text of commands and responses, transfer of the product settings, how to save LOG evets into a file. Then it presents the Numbers Editor for security and saving the set in the product, firmware upgrade, and others. It is indicated by the red square on the right and in the middle part of the page.

Note...

Your device has built-in intelligent help system allowing faster control actions; if you send an incorrect command, your device will offer similar commands to you. You may also send more than one command consecutively in a single SMS. Your device will then reply by individual SMS messages. Please see an example from the terminal of IQcontrol Suite for Windows when sending the character 'a' and two commands TurnedOn and Status - separated by character #.



The window area can be saved or cleared by right click on mouse.



3 Basic Control

If you send a message containing text "HELP" to the telephone number of SIM in device, the following control commands will be displayed:
These commands are displayed automatically in the welcome note after you have logged in by the IQcontrol software terminal via Bluetooth.

Command Nr.	01		
Text	**TurnOn**		
Function	It permanently turns on the output socket.		
Response	***TurnedOn***		
Access Rights	User/Admin	License	Base

Command Nr.	110		
Text	**TurnOnTime**		
Function	It turns on the output socket for a specified time in range of 1to 240 minutes. The text TurnONTime=10, it turns on the output socket for 10 minutes.		
Response	***TurnedOn***		
Access Rights	User/Admin	License	Base

Command Nr.	02		
Text	**TurnOff**		
Function	It permanently turns off the output socket.		
Response	***TurnedOff***		
Access Rights	User/Admin	License	Base

Command Nr.	03		
Text	**Restart**		
Function	It changes the status of the output socket for a user specified time **RestartTime/RestartCas.**		
Response	**Restarted**		
Access Rights	User/Admin	License	Base

Command Nr.	04		
Text	**AddSocket=01020304,socket1**		
Function	It adds a wireless socket controlled by the RF dongle (optional accessories). You may control it by using an alias "socket1" by means of commands 01 up to 03, i.e. Restart=socket1. You may add up to a maximum of 10 records.		
Response	***AddSocket=01020304 - OK***		
Access Rights	User/Admin	License	Medium

Command Nr.	05		
Text	**DelSocket=01020304** **DelSocket=socket1**		
Function	It deletes the wireless socket by use of its number or its alias.		
Response	***DelSocket=01020304 - OK***		
Access Rights	User/Admin	License	Medium

Command Nr.	06		
Text	**DelAllSockets**		
Function	It deletes all serial numbers of the added sockets.		
Response	***DelAllSockets – OK***		
Access Rights	User/Admin	License	Medium

Command Nr.	07		
Text	**RFSocketStatus=socket1**		
Function	It informs on the status of auxiliary RF socket - TurnedON/TurnedOFF/Restarted/Unavailable		
Response	**RFsocket socket1 is TurnedOff**		
Access Rights	User/Admin	License	Medium

Command Nr.	08		
Text	**SocketList**		
Function	It displays all added auxiliary sockets.		
Response	**01020304,socket1**		
Access Rights	User/Admin	License	Medium

Command Nr.	10		
Text	**Status**		
Function	It displays a short SMS message about the status of the output socket and other sockets.		
Response	Output:TurnedOff Signal:61% Time:15/04/23,19:47:30 Last pwrlost: 15/04/23,18:40:01 OP: EUROTEL PRAHA		
Access Rights	User/Admin	License	Base

Command Nr.	97		
Text	**LongStatus**		
Function	It displays a detailed SMS message about the status of the output and other sockets.		
Response	Output:TurnedOn DIN: N/A A/D: N/A Pulses: N/A Signal:61% T1: N/A T2: N/A T3: N/A T4: N/A T5: N/A T6: N/A T7: N/A T8: N/A Time:15/04/23,19:47:30 Last pwrlost: 15/04/23,18:40:01 OP: EUROTEL PRAHA		
Access Rights	User/Admin	License	Base

Command Nr.	98		
Text	**SaveStatus**		
Function	It saves the status of your device at a given time in the internal device LOG that can be displayed.		
Response	**SaveStatus – OK**		
Access Rights	User/Admin	License	Base

Command Nr.	11		
Text	**RingOn**		
Function	It makes a call back for time specified by RingOnTime|ProzvonCas		
Response	***No response***		
Access Rights	User/Admin	License	Base

Command Nr.	12		
Text	**Help**		
Function	It displays all control commands – In case of the USER access rights, the command HELP will give a description of the command syntax.		
Response	***See description***		
Access Rights	User/Admin	License	Base

Command Nr.	13		
Text	**Config**		
Function	It displays configuration commands – in case of ADMIN access rights Config=50 will display commands starting from the 50th command, since a list can contain more characters than a maximum of 4x160 (4 SMS messages), and then each undisplayed command is listed as a character '.'		
Response	***See description***		
Access Rights	User/Admin	License	Base

Command Nr.	20		
Text	**AdminList**		
Function	It displays the Administrator number.		
Response	***AdminList=42012345678***		
Access Rights	User/Admin	License	Base

Command Nr.	42		
Text	**StatusGPRS**		
Function	It sends information on the status of the device by GPRS. User is allowed to customize the text and parameters; otherwise standard STATUS will be sent. It is required from the user to have configured GPRS parameters and have GPRS Internet service on the SIM card.		
Response	**StatusGPRS - OK**		
Access Rights	User/Admin	License	Full

Command Nr.	88		
Text	**Version**		
Function	It displays the internal software version.		
Response	***Ver. 1.0.0.***		
Access Rights	User/Admin	License	Base

Note...

*You can assign the **ADMIN/USER Access Rights** for each command n the COMMANDS EDITOR of the IQcontrol SUITE. This guide presents only commands as used in factory default settings.*

4 Advanced Settings

If you send a message containing text "CONFIG" to the telephone number of your socket, the configuration commands will be displayed.
These commands can be used only by the specified ADMIN, if it s defined. In factory default settings any user is considered to be ADMIN. You can set the User or ADMIN access rights in the Commands Editor of the IQcontrol Suite software.
Since the list of configuration commands can be longer than maximum allowed size of 4 SMS messages (4x160 characters), each undisplayed command is listed as a character '.' If you wish to see the full list, for example to display commands starting from the 50th command, you need to use the suffix "=50".

If you send any configuration command correctly, you will get in response confirmation in the form of the suffix "-OK". You will get the current settings for parameters of any command when you add the character '?' following the particular command. As an illustration, in order to know the settings for the **InputType** command, you will send a message **InputType?** and your device will send to you the settings **InputType=(Temp),Digital,Analog**, where the parameter in parentheses is currently configured. If you wish to change the active parameter, select the particular parameter as follows: **InputType=Digital**.

Illustration of using the **Config** command:
Inputtype,RestartTime,RingactionMASTER,RingactionUSER,NCactionMASTER,NCactionUSER,AddMaster,Adduser,DelUser,DelAllUsers,UserList,UserAList,RingTimes,RingOnTime,MaxSMS,Output,MasterPINSet,MasterPIN,UserPINSet,UserPIN,BTPIN,PINIVR,ScheduleAdd,ScheduleDel,ScheduleDeLAll,SchedulerLIST,SchedulerOptions,DeviceName,Inputunit,Counter,DelCounter,Triggertime1,Voltalarm,VLevelMin,VLevelMax,PulseAlarm,MinPulses,MaxPulses,TAlarm,TempAlarm,PwrAlarm,AddAlarmNumber,DelAlarmNumber,DelAllAlarmNum,ListAlarmNum,Alarmqueue,StopAllAlarms,JammAlarm,Tp1Max,Tp1Min,Tp2Max,Tp2Min,Tp3Max,Tp3Min,Tp4Max,Tp4Min,Tp5Max,Tp5Min,Tp6Max,Tp6Min,Tp7Max,Tp7Min,Tp8Max,.....

Illustration of using the **Config=50**command:
Tp2Max,Tp2Min,Tp3Max,Tp3Min,Tp4Max,Tp4Min,Tp5Max,Tp5Min,Tp6Max,Tp6Min,Tp7Max,Tp7Min,Tp8Max,Tp8Min,TControlMax1,TControlMin1,OutputControl,Version,PinLimitsIVR,PinLimitsBT,UserTypeIVR,AllLogs,SystemLog,ControlLog,ConfigLog,EraseSensors,LongStatus,SaveStatus,Default,GPRS,GPRSAPN,GPRShost,GPRSport,CntDiv,Nexttime,Usersms,Separators,Bluetooth,License,IMEI,IVRSoundDelay,Reboot.

Command Nr.	09		
Text	**InputType**		
Function	It sets the type of a universal input.		
Settings with '?'	***(Temp),Digital,Analog***		
InputType=Temp **TypVstupu=Tep**	Option for up to 8 temperature/humidity sensors and for connecting of the wireless adapter.		
InputType=Digital **TypVstupu=Digital**	The input detects two levels: LOG1 and LOG0, turned on 2 - max 5Volts, turned off <2V. For another level you are required to connect a voltage divider or an opto-isolator.		
InputType=Analog **TypVstupu=Analog**	Analog input for voltage monitoring or for connecting an adapter used to fence voltage monitoring as well.		
Access Rights	Admin	License	Medium

Command Nr.	14		
Text	**RestartTime**		
Function	It sets the restart time for the output socket in seconds, a range of 1 up to 300.		
Settings with '?'	***Restarttime=30***		
Settings Change	**RestartTime=10**		
Access Rights	Admin	License	Base

Command Nr.	117		
Text	**Reboot**		
Function	It executes the restart of the device itself, BT connection will be terminated.		
Response	***Reboot - OK***		
Access Rights	Admin	License	Base

Command Nr.	15		
Text	**RingActionAdmin**		
Function	Action after confirmed incoming call to the Admin number if the number is set. If not, any number is considered to be Admin.		
Settings with '?'	***(NoAction),HangUP,Restart,Reswitch,IVR***		
RingActionAdmin=NoAction	The device gives no response to an incoming call, however, the information on time of the call and the calling number, including the number of rings, are saved in an internal LOG.		
RingActionAdmin=HangUp	The device hangs up and makes no action to an incoming call longer than one ring*. A record with time of the call and the calling number, including the number of rings, will be saved in an internal LOG.		
RingActionAdmin=Restart	The device hangs up the incoming call* and performs the RESTART of the output socket. A record with time of the call and the calling number, including the number of rings and the performed action, will be saved in an internal LOG.		
RingActionAdmin=Reswitch	The device hangs up the incoming call* and makes a permanent change of the status (TurnOff/TurnOn, TurnOn/TurnOff) of the output socket. A record with time of the call and the calling number, including the number of rings and the performed action, will be saved in an internal LOG.		
RingActionAdmin=IVR	The device answers the incoming call* and activates the voice selfservice. A record with time of the call and the calling number, including the number of rings and the performed action, will be saved in an internal LOG. It is required that a voice file is recorded and the MEDIUM License is activated.		
Access Rights	Admin	License	Base

Command Nr.	16		
Text	**RingActionUser**		
Function	Action for confirmed incoming call to a user number if the number is set. Otherwise, it will be ignored.		
Settings with '?'	***(NoAction),HangUP,Restart,Reswitch,IVR***		
RingActionUser=NoAction	The device gives no response to an incoming call, however, the information on time of the call and the calling number, including the number of rings, are saved in an internal LOG.		
RingActionUser=HangUp	The device hangs up and makes no action to an incoming call longer than one ring*. A record with time of the call and the calling number, including the number of rings, will be saved in an internal LOG.		
RingActionUser=Restart	The device hangs up the incoming call* and performs the RESTART of the output socket. A record with time of the call and the calling number, including the number of rings and the performed action, will be saved in an internal LOG.		
RingActionAdmin=Reswitch	The device hangs up the incoming call* and makes a permanent change of the status (TurnOff/TurnOn, TurnOn/TurnOff) of the output socket. A record with time of the call and the calling number, including the number of rings and the performed action, will be saved in an internal LOG.		
RingActionAdmin=IVR	The device answers the incoming call* and activates the voice selfservice. A record with time of the call and the calling number, including the number of rings and the performed action, will be saved in an internal LOG. It is required that a voice file is recorded and the MEDIUM License is activated.		
Access Rights	Admin	License	Medium

Note...

*You can define the **number of rings** by the **RingTimes** command.*

Command Nr.	17		
Text	**NCActionAdmin**		
Function	Action for an incoming call to the Admin number if the number is set. The action will be made unless the number of rings exceed a user-specified limit. And thus the Admin can perform two actions by making calls. If no Admin number is set, any number is considered to be Admin.		
Settings with '?'	***(NoAction),Restart,Reswitch***		
NCActionAdmin =NoAction	The device gives no response to an incoming call, however, the information on time of the call and the calling number, including the number of rings, are saved in an internal LOG.		
NCActionAdmin =Restart	The device will perform the RESTART of the output socket when an incoming call is shorter than the specified number of rings. A record with time of the call and the calling number, including the number of rings and the performed action, will be saved in an internal LOG.		
NCActionAdmin =Reswitch	The device will make a permanent change of the status (TurnOff/TurnOn, TurnOn/TurnOff) of the output socket when an incoming call is shorter than the specified number of rings. A record with time of the call and the calling number, including the number of rings and the performed action, will be saved in an internal LOG.		
Access Rights	Admin	License	Medium

Command Nr.	18		
Text	**NCActionUser**		
Function	Action for an incoming call to a User number if the number is set. The action will be made unless the number of rings exceeds a user-specified limit. And thus the User can perform two actions by making calls. If no User number is defined, an option will be ignored.		
Settings with '?'	***(NoAction),Restart,Reswitch***		
NCActionUser= NoAction	The device gives no response to an incoming call, however, the information on time of the call and the calling number, including the number of rings, are saved in an internal LOG.		
NCActionUser= Restart	The device will perform the RESTART of the output socket when an incoming call is shorter than the specified number of rings. A record with time of the call and the calling number, including the number of rings and the performed action, will be saved in an internal LOG.		
NCActionUser= Reswitch	The device will make a permanent change of the status (TurnOff/TurnOn, TurnOn/TurnOff) of the output socket when an incoming call is shorter than the specified number of rings. A record with time of the call and the calling number, including the number of rings and the performed action, will be saved in an internal LOG.		
Access Rights	Admin	License	Medium

Command Nr.	19		
Text	**AddAdmin**		
Function	It adds the Administrator number, this number is the only one that is allowed to edit all parameters of the device.		
Settings with '?'	***N/A, use AdminList***		
AddAdmin	This command will save the number from which a SMS message was sent. The device will confirm whether it has been added for the first time or has been overwritten.		
AddAdmin=420123456789	*You can also select a different number than the one from which a SMS message was sent. By this command you can add the Admin number via BT terminal.*		
Access Rights	Admin	License	Base

Command Nr.	21		
Text	**AddUser**		
Function	It adds a User number for which the device can only be used in a limited way – only control commands. There may be up to one thousand User numbers.		
Settings with '?'	***N/A, use UserList or UserAList***		
AddUser=420123456789,alias	*It adds the User number. The alias serves for better orientation and for the user identification.* ***There may be several possible records!*** *You can add a number with no alias and several numbers following each other as well, e.g.* **AddUser=420123456789;4201111111** *or:* **AddUser=420123456789,alias1;4201111111,alias2** *or a combination up to the size of one SMS (160 characters).*		
Access Rights	Admin	License	Base

Note...

*It is possible to upload **a text file containing user numbers** using IQcontrol suite. Text file can be generated by the user manually by a text editor, or by the Numbers Editor (full License is needed).*

Base License support **100** user numbers. **Medium License** support **500** user numbers and **Full License** support **1000** user numbers.

Command Nr.	22		
Text	**DelUser**		
Function	It deletes a User number for which the device can only be used in a limited way – only control commands. There may be up to one thousand User numbers.		
Settings with '?'	***N/A, use UserList or UserAList***		
DelUser=420123456789	*It deletes the User number. The alias serves for better orientation and for the user identification. You can delete one or several numbers following each other:* ***DelUser****=420123456789;420111111* *up to the size of one SMS (160 characters).*		
Access Rights	Admin	License	Base

Command Nr.	23		
Text	**DelAllUsers**		
Function	It deletes all user numbers. It is confirmed by the suffix - OK.		
Settings with '?'	***N/A, use UserList or UserAList***		
Access Rights	Admin	License	Base

Command Nr.\	24		
Text	**UserList**		
Function	It displays numbers of all added users. It displays a list of numbers with no aliases.		
Settings with '?'	***N/A***		
UserList=1	*It displays a list from the first number. You can display the whole list by changing the number.* *The size of the reply text is limited up to the size of 4 SMS messages (4x160 characters).*		
Access Rights	Admin	License	Base

Command Nr.\	25		
Text	**UserAList**		
Function	It displays numbers of all added users. It displays a list of numbers with its aliases.		
Settings with '?'	***N/A***		
UserAList=1	*It displays a list from the first number. You can display the whole list by changing the number.* *The size of the reply text is limited up to the size of 4 SMS messages (4x160 characters).*		
Access Rights	Admin	License	Base

Command Nr.	26		
Text	**RingTimes**		
Function	It configures the limit of ring times based on which actions to incoming calls are evaluated, range of 1 to 6. If the user hangs up before the specified number, an action will be made based on the defined commands **NCActionxxx/NCAkcexxx**		
Settings with '?'	***RingTimes=5***		
Change of settings	**RingTimes=5**		
Access Rights	Admin	License	Base

Command Nr.	27		
Text	**RingOnTime**		
Function	It configures the time of call backs in seconds, range of 5 to 30. For example: In case of an alarm or when the **RingON/Prozvon** command is used.		
Settings with '?'	***RingOnTime =15***		
Change of settings	**RingOnTime =20**		
Access Rights	Admin	License	Base

Command Nr.	28		
Text	**SMSPerDay**		
Function	Number of sent SMS messages from the device per day. Range of 0 to 250. 0 is unlimited number of SMS. It can be refreshed byt push button after block.		
Settings with '?'	***SMSPerDay =50***		
Change of settings	**SMSPerDay =10**		
Access Rights	Admin	License	Base

Command Nr.	29		
Text	**Output**		
Function	Settings of the status of the output socket after plugging into power supply.		
Settings with '?'	***(Remeber),On,Off***		
Output=Remember	The output socket will be configured to have the status in which it was before the own power supply loss.		
Output=On	The output socket will be always configured to have the status TurnedOn after plugging into power supply.		
Output=Off	The output socket will be always configured to have the status TurnedOff after plugging into power supply.		
Access Rights	Admin	License	Base

Command Nr.	30		
Text	**AdminPINSet**		
Function	PIN Activation/PIN deactivation for the Administrator number if specified.		
Settings with '?'	***(No),Yes***		
AdminPINSet=No	PIN is not activated in an incoming SMS.		
AdminPINSet=Yes	PIN is activated in an incoming SMS.		
Access Rights	Admin	License	Base

Command Nr.	31		
Text	**AdminPIN**		
Function	A PIN option for the security of incoming SMS messages from the Administrator number. This PIN always contains 4 digits and if this option is activated, then this PIN must be inserted before the command text. For example: To turn off **0000TurnOff|0000Vypni**		
Settings with '?'	***0000***		
AdminPIN=1234	*It modifies PIN to 1234.*		
Access Rights	Admin	License	Base

Command Nr.	32		
Text	**UserPINSet**		
Function	PIN Activation/PIN deactivation for user numbers if specified.		
Settings with '?'	***(No),Yes***		
UserPINSet=No	PIN is not activated in an incoming SMS.		
UserPINSet=Yes	PIN is activated in an incoming SMS.		
Access Rights	Admin	License	Base

Command Nr.	33		
Text	**UserPIN**		
Function	A PIN option for the security of incoming SMS messages from the user numbers. This PIN always contains 4 digits and if this option is activated, then this PIN must be inserted before the command text. For example: To turn off **0000TurnOff|0000Vypni**		
Settings with '?'	***0000***		
UserPIN=1234	*It modifies PIN to 1234.*		
Access Rights	Admin	License	Base

Command Nr.	34		
Text	**BTPIN**		
Function	A PIN option for the security of a Bluetooth terminal. This PIN always contains 4 digits.		
Settings with '?'	***0000***		
BTPIN=1234	*It modifies PIN to 1234.*		
Access Rights	Admin	License	Base

Command Nr.	35		
Text	**PINIVR**		
Function	A PIN option for a voice selfservice requesting the user to enter this PIN. This PIN always contains 4 digits.		
Výpis nastavení s '?'	***0000***		
PINIVR=1234	*It modifies PIN to 1234.*		
Access Rights	Admin	License	Base

Command Nr.	36		
Text	**ScheduleAdd**		
Function	It adds an event for the Scheduler. Syntax is **ScheduleAdd=hh:mm,*,Action.** Where hh means hours, mm means minutes, * means every day; numbers 1 to 7, Monday to Sunday can be used instead. Action means a Scheduler event that can be displayed (e.g. if the user changes the control commands by the **ScheduleOptions/PlanovacAkce** command), for more information, please refer to its desciption. A maximum number of time records is 30.		
Settings with '?'	***N/A***		
ScheduleAdd=10:31, 7,TurnOn	It adds a time schedule for turning the output socket on at 10:31 a.m. always on Sunday.		
ScheduleAdd=14:20, *,Status	It adds a time schedule for sending SMS on the status of the socket at 2:20 p.m. every day. SMS messages will be sent to selected or all alarm numbers specified by the user.		
Access Rights	Admin	License	Medium

Command Nr.	37		
Text	**ScheduleDel**		
Function	It deletes an event for the Scheduler. Syntax is **ScheduleDel=hh:mm** Where hh means hours, mm means minutes.		
Settings with '?'	***N/A***		
ScheduleDel=10:31	It deletes a time schedule for 10:31 a.m.		
Access Rights	Admin	License	Medium

Command Nr.	38		
Text	**ScheduleDelAll**		
Function	It deletes all events for the Scheduler.		
Settings with '?'	***N/A***	***N/A***	
ScheduleDelAll	It deletes all Scheduler records.		
Access Rights	Admin	License	Medium

Command Nr.	39		
Text	**SchedulerList**		
Function	It displays all added Scheduler records.		
Settings with '?'	***N/A***		
SchedulerList=1	It displays the Scheduler records starting from the first record.		
Access Rights	Admin	License	Medium

Command Nr.	40		
Text	**SchedulerOptions**		
Function	It displays all potential Scheduler events that can be added into a time schedule. These events are the particular commands for controlling the device. In case of their modification the text of events will be also modified.		
Settings with '?'	***N/A***		
SchedulerOptions	Turnon,TurnOff,Restart,Status,GPRSStatus,SaveStatus		
	Zapni,**Vypni**,**Restart**,**Stav**,**GPRSStav**,**UlozStav**		
Access Rights	Admin	License	Medium

Command Nr.	41		
Text	**DeviceName**		
Function	It configures the device name which can be identified in this way via a Bluetoth terminal, and this name is also used in alarm SMS messages. The size is up to a maximum of 18 characters.		
Settings with '?'	***Devicename=IQsocket***		
DeviceName=NewName	*It configures a new device name to NewName.*		
Access Rights	Admin	License	Base

Command Nr.	43		
Text	**TempUnit**		
Function	It configures temperature units for temperature sensors, based upon option they will be displayed according to selected conversion.		
Settings with '?'	***TempUnit=(DegC),DegF***		
TempUnit=F	*It configures Fahrenheit temperature units.*		
Access Rights	Admin	License	Base

Command Nr.	44		
Text	**Counter**		
Function	It displays the numbers of changes in inputs and outputs. The range is 0 – 65535 counts.		
Settings with '?'	***N/A***	***N/A***	
Counter=1	*It displays the number of changes in the output socket.*		
Counter=2	*It displays the numbers of changes in a digital input in case it is defined as digital.*		
Counter=3	*It displays the number of pressing the manual control push button.*		
Counter=4	*It displays the number of power failures.*		
Counter=5	*It displays the number of network failures.*		
Counter=6	*It displays the number of received SMS.*		
Counter=7	*It displays the number of declined SMS throught security settings.*		
Counter=8	*It displays the number of processed SMS.*		
Counter=9	*It displays the number of sent SMS from socket.*		
Counter=10	*It displays the numbers of all incoming calls.*		
Counter=11	*It displays the numbers of allowed incoming calls.*		
Access Rights	Admin	License	Base

Command Nr.	45		
Text	**DelCounter**		
Function	It sets the numbers of changes in the particular counter to zero.		
Settings with '?'	***N/A***		
DelCounter=1	*It deletes the numbers of changes in the output socket.*		
DelCounter=2	*It deletes the numbers of changes in a digital input in case it is defined as digital.*		
DelCounter=3	*It deletes the number of pressing the manual control push button.*		
DelCounter=4	*It deletes the number of power failures.*		
DelCounter=5	*It deletes the number of network failures.*		
DelCounter=6	*It deletes the number of received SMS.*		
DelCounter=X	*It deletes the counter number X, see command number 44*		
Access Rights	Admin	License	Base

Command Nr.	47		
Text	**TriggerTime**		
Function	It configures the time in miliseconds that is the minimum for evaluating the digital input level if configured. It is not recommended to be lower than 100ms because of interference from the GSM network. Range of 10 to 30000 ms.		
Settings with '?'	***TriggerTime =100***		
Change of settings	**TriggerTime =200**		
Access Rights	Admin	License	Full

Command Nr.	50		
Text	**VoltAlarm**		
Function	Configuration of the voltage detection alarm at the A/D input if configured as analog.		
Settings with '?'	***VoltAlarm=(No),Min,Max,Mix***		
Voltalarm=Min	*It activates the voltage monitor alarm at the A/D input to the minimum specified level.*		
Voltalarm=Max	*It activates the voltage monitor alarm at the A/D input to the maximum specified level.*		
Voltalarm=MiX	*It activates the voltage monitor alarm at the A/D input to the minimum and the maximum specified levels.*		
Voltalarm=No	*It deactivates the voltage monitor alarm.*		
Access Rights	Admin	License	Full

Command Nr.	51		
Text	**VLevelMin**		
Function	It configures the minimum voltage level in hundreths of volts. The maximum value is 330 centivolts. The configured level of 100 actually corresponds to 1 volt.		
Settings with '?'	***VLevelMin =100***		
Change of settings	**VLevelMin =100**		
Access Rights	Admin	License	Full

Command Nr.	52		
Text	**VLevelMax**		
Function	It configures the maximum voltage level in hundreths of volts.The configured level of 200 actually corresponds to 2 volts. The maximum value is 330 centivolts.		
Settings with '?'	***VLevelMax =200***		
Change of settings	**VLevelMax =200**		
Access Rights	Admin	License	Full

Command Nr.	53		
Text	**PulseAlarm**		
Function	It configures the pulse monitor alarm per one minute. You can configure it for an analog input (electric fence and its voltage level monitoring) with defined VLevelMin and VLevelMax limits for detection.		
Settings with '?''	***PulseAlarm=(No),Min,Max,Mix***		
Pulsealarm=Min	*It activates the impulse monitor alarm to the minimum specified level.*		
Pulsealarm=Max	*It activates the impulse monitor alarm to the maximum specified level.*		
Pulsealarm=MiX	*It activates the impulse monitor alarm to the maximum and the minimum specified levels.*		
Pulsealarm=No	*It deactivates the pulse alarm.*		
Access Rights	Admin	License	Full

Command Nr.	54		
Text	**MinPulses**		
Function	Configuration of the minimum limit for the number of pulses per one minute, range of 1 to 240.		
Settings with '?'	***MinPulses =10***		
Change of settings	**MinPulses =30**		
Access Rights	Admin	License	Full

Command Nr.	55		
Text	**MaxPulses**		
Function	Configuration of the maximum limit for the number of pulses per one minute, range of 10 to 240.		
Settings with '?'	***MaxPulses =10***		
Change of settings	**MaxPulses =30**		
Access Rights	Admin	License	Full

Command Nr.	56		
Text	**DAlarm**		
Function	It configures the digital input change monitor alarm. The universal input must be set as digital.		
Settings with '?'	***DAlarm=(No),Low,High,Both***		
Dalarm=Low	*It activates the alarm at the low level at the digital input GND, 0 volts.*		
Dalarm=High	*It activates the alarm at the high level at the digital input of 2-5 volts.*		
Dalarm=Both	*It activates the alarm at both levels.*		
Dalarm=No	*It deactivates the digital input monitor alarm.*		
Access Rights	Admin	License	Full

Command Nr.	60		
Text	**TempAlarm**		
Function	It configures the temperature/humidity monitor alarm for up to 8 sensors connected to the universal input. An alarm alert is always sent when temperature exceeds the upper limit or falls below the lower limit specified by the user.		
Settings with '?'	***TempAlarm=(No),Yes***		
Tempalarm=Yes	*It activates the temperature alarm.*		
Tempalarm=No	*It deactivates the temperature alarm.*		
Access Rights	Admin	License	Medium

Command Nr.	61		
Text	**PwrAlarm**		
Function	It configures the power failure and power recovery monitoring alarm. Triggertime is set to 500msec.		
Settings with '?'	***PwrAlarm=(No),Yes***		
Pwrpalarm=Yes	*It activates the power failure and power recovery alarm.*		
Pwrpalarm=No	*It deactivates the alarm.*		
Access Rights	Admin	License	Base

Command Nr.	62		
Text	**AddAlarmNumber**		
Function	It adds the number to which an alarm alert should be sent. There can be up to a maximum of 12 alarm numbers.		
Settings with '?'	***N/A***		
AddAlarmnuber= 420123456789,S,*	*It adds the number 420123456789 to which an alarm alert should be sent in the form of SMS message; each alarm event will be sent to this number (character *). The character * can be replaced with the given alarm number and each alarm number can be assigned to another alarm.*		
AddAlarmnuber= 420123456789,C,1	*It adds the number 420123456789 to make a call only in case of a power recovery - character **1**, if this alarm is activated.*		
Access Rights	Admin	License	Base

Meaning of alarms.

** - Each alarm event causes notifications to be sent via SMS or calling.*
*1 - **Power recovery alarm***
*2 – **Power failure alarm***
*6 - **GSM jamming alarm***
*7 – **Falling below the minimum level of pulses per minute alarm***
*8 - **Exceeding the maximum level of pulses per minute alarm***
*9 – **Falling bellow the minimum voltage level alarm***
*10 - **Exceeding the maximum voltage level alarm***
*11 – **Reaching the lower level at the digital input , GND, 0 volts, alarm***
*12 - **Reaching the upper level at the digital input , 2-5 volts, alarm***
*13 - **Temperature/Humidity alarm on sensor 1.***
*14 - **Temperature/Humidity alarm on sensor 2.***
*15 - **Temperature/Humidity alarm on sensor 3.***
*16 - **Temperature/Humidity alarm on sensor 4.***
*17 - **Temperature/Humidity alarm on sensor 5.***
*18 - **Temperature/Humidity alarm on sensor 6.***
*19 - **Temperature/Humidity alarm on sensor 7.***
*20 - **Temperature/Humidity alarm on sensor 8.***

Any other values are ignored. 1- the highest priority.
All numbers must be insterted in international format exclude first character + .

Command Nr.	63		
Text	**DelAlarmNumber**		
Function	It deletes the alarm number.		
Settings with '?'	***N/A***		
DelAlarmNumber= 420123456789,C,1	*It deletes the number 420123456789 from the list.*		
Access Rights	Admin	License	Base

Command Nr.	64		
Text	**DelAllAlarmNum**		
Function	It deletes all alarm numbers from the list.		
Settings with '?'	***N/A***		
DelAllAlarmNum	It deletes all numbers from the list.		
Access Rights	Admin	License	Base

Command Nr.	65		
Text	**ListAlarmNum**		
Function	It displays all added numbers for alarms, or: no record.		
Settings with '?'	***N/A***		
ListAlarmNum	*It displays added numbers, including events.*		
Access Rights	Admin	License	Base

Command Nr.	66		
Text	**AlarmQueue**		
Function	Here it is configured whether alarms will be sent to all defined numbers, or whether no other potential alarm numbers will be activated after answering the call in case of calling. Answering the call, neither denying the call, is considered to be activation.		
Settings with '?'	***AlarmQueue=(Always), Terminate***		
AlarmQueue=Always	*In case of an alarm event, a SMS message is always sent/a call is always made to all added numbers for selected alarm event.*		
AlarmQueue=Terminate	*In case of an alarm event, a SMS message is sent/a call is made to all added numbers for selected alarm event In case of calling and answering the call by the user, no SMS message will be sent/no more calls will be made to another alarm number for the particular alarm event.*		
Access Rights	Admin	License	Base

Command Nr.	67		
Text	**StopAllAlarms**		
Function	If the command is sent once, it will temporarily stop all alarms, after reboot/restart of the device the alarms selected by the user will be activated and the user will be notified of this by SMS. If the command is sent again, all active alarms will be stopped permanently.		
Settings with '?'	***N/A***		
StopAllAlarms	*All alarms were stopped temporarily!*		
StopAllAlarms	*All alarms were stopped permanently!*		
Access Rights	Admin	License	Base

Command Nr.	68		
Text	**JammAlarm**		
Function	It configures the GSM jamming monitoring alarm. A SMS message will be sent after the connection has been restored, in such a way as in case of the other alarms. The device will send a SMS information whether jamming comes from a GSM jammer, or is caused by increased noise.		
Settings with '?'	***JammAlarm=(No),Yes***		
JammAlarm=Yes	*It activates the GSM jamming alarm.*		
JammAlarm=Yes	*It deactivates the alarm.*		
Access Rights	Admin	License	Base

Command Nr.	69		
Text	**Tp1Max**		
Function	It configurates the maximum level for temperature/humidity sensor 1. Range of -200 up to +1300°.		
Settings with '?'	**Tp1Max=*30***		
Change of settings	**Tp1Max=-30**		
Access Rights	Admin	License	Medium

Command Nr.	70		
Text	**Tp1Min**		
Function	It configurates the minimum level for temperature/humidity sensor 1. Range of -200 up to +1300°.		
Settings with '?'	**Tp1Min=*20***		
Change of settings	**Tp1Min=-30**		
Access Rights	Admin	License	Medium

Note...

You can add the limits for all 8 sensors.
Analog commands are the following: Tp2Min to TP8Min and Tp2Max to Tp8Max. Command numbers start from 71 up to 84.

Command Nr.	85		
Text	**TControlMax**		
Function	It configurates the maximum threshold for the thermostat - automatic socket switching. Range of -200 up to +1300°. Either turning the socket off or turning the socket on can be realised by value substitution <> in case of exceeding temperature/humidity limits.		
Settings with '?'	***TControlMax =30***		
Change of settings	**TControlMax =-30**		
Access Rights	Admin	License	Medium

Command Nr.	86		
Text	**TControlMin**		
Function	It configurates the minimum threshold for the thermostat - automatic socket switching. Range of -200 up to +1300°.		
Settings with '?'	***TControlMin =20***		
Change of settings	**TControlMin =-30**		
Access Rights	Admin	License	Medium

Command Nr.	87		
Text	**OutputControl**		
Function	Activation of the thermostat - automatic control of the socket based on temperature/humidity sensor. Thermostat can be assigned only to one temperature/humidity sensor. The number is assigned to the sensor during activation, please refer to chapter on sensor activation.		
Settings with '?'	***OutputControl=(Off),S1,S2,S3,S4,S5,S6,S7,S8***		
OutputControl=S3	*It activates the thermostat on sensor 3.*		
OutputControl=Off	*It deactivates the thermostat.*		
Access Rights	Admin	License	Medium

Command Nr.	88		
Text	**Version**		
Function	It displays the current internal software version of the device.		
Settings with '?'	***N/A***		
Version	*Ver. 1.0.0*		
Access Rights	Admin	License	Base

Command Nr.	89		
Text	**PINLimitsIVR**		
Function	A number of wrong pins entered for the voice selfservice. If this number has been set and exceeded, the user will be notified by voice that the limit has been exceeded. It is set to zero every day at 0:00, or by reboot/restart of the device. Range of 0 up to 20. 0 is set for inlimited tries.		
Settings with '?'	**PINLimitsIVR =*0***		
PINLimitsIVR=0	Unlimited number of wrong pins entered.		
PINLimitsIVR=3	A number of wrong pins entered one after another - 3.		
Access Rights	Admin	License	Medium

Command Nr.	90		
Text	**PINLimitsBT**		
Function	A number of wrong pins entered for the IQcontrol terminal via Bluetooth. If this number has been set and exceeded, the user will be notified by voice that the limit has been exceeded. It is set to zero every day at 0:00, or by reboot/restart of the device. Range of 0 up to 20.		
Settings with '?'	**PINLimitsBT=*0***		
PINLimitsBT=0	Unlimited number of wrong pins entered.		
PINLimitsBT=3	A number of wrong pins entered one after another - 3.		
Access Rights	Admin	License	Base

Command Nr.	91		
Text	**UserTypeIVR**		
Function	It configures a range of the voice selfservice.		
Settings with '?'	**UserTypeIVR=(Long),Short**		
UserTypeIVR=Short	After the correct PIN has been entered in the voice selfservice, the socket will be restarted and then the call will be hung up.		
UserTypeIVR=Long	After the correct PIN has been entered in the voice selfservice, the full menu will be offered to the user.		
Access Rights	Admin	License	Medium

Command Nr.	92		
Text	**AllLogs**		
Function	It displays the last 250(max) records of all event types.		
Settings with '?'	***N/A***		
AllLogs=1	It provides a list of events starting from the first record.		
Access Rights	Admin	License	Medium

Command Nr.	93		
Text	**SystemLog**		
Function	It displays the last 250(max) records of system events log.		
Settings with '?'	***N/A***		
SystemLog=1	It provides a list of system events starting from the first record.		
Access Rights	Admin	License	Base

System events can be the following:

Power lost / **Vypadek napajeni**
Power refresh / **Napajeni obnoveno**
Firmware upgrade / **Aktualizace firmware**
IVR uploaded / **IVR nahrana**
Configuration uploaded / **Konfigurace nahrana**
Commands uploaded / **Prikazy nahrany**
Manual button used / **Stitknuto tlacitko**
Scheduler event: Status / **Akce planovace: Stav**
SMS limit over /**Vycerpan limit SMS control**
Event / **Udalost**
Disconnect from Network / **Vypadek z GSM site**
Set to default / **Nastaveni tov. hodnot**
GSM jamming by GSM Jammer / **GSM ruseni GSM rusickou**

Each record also contains the current time when the event occurred.
Any of these texts can be customized by the user.

Command Nr.	94		
Text	**ControlLog**		
Function	It displays the last 250(max) device control log records.		
Settings with '?'	***N/A***		
ControlLog=1	It provides a list of device control events starting from the first record.		
Access Rights	Admin	License	Base

Control events can be the following:

Call from (ANSWERED): 420123456789, Restart
Volani z (PRIJATO) : 420123456789, Restart
Call from (NO CARRIER) : ? , NoAction
Volani z (NEPRIJATO) : ?, Zadna akce *, ? means an unlisted number*
Call denied: 420123456789
-Hovor odmitnut: 420123456789
SMS Denied: 420123456789
SMS odmitnuta: 420123456789

Furthermore all incoming SMS notifications of control commands for the SMS scheduler.

Each log record also contains the current time when the event occurred.
Any of these texts can be customized by the user.

Command Nr.	95		
Text	**ConfigLog**		
Function	It displays the last 250(max) device configuration event log records.		
Settings with '?'	***N/A***		
ConfigLog=1	It provides a list of the device configuration event log records starting from the first record.		
Access Rights	Admin	License	Base

Configuration events are all SMS messages intended to configure the device.

Each record of log also contains the current time when the event occurred.

Command Nr.	96		
Text	**EraseSensors**		
Function	It deletes all universal input sensors that have been added.		
Settings with '?'	***N/A***		
EraseSensors	It deletes all added temperature/humidity sensors.		
Access Rights	Admin	License	Base

Command Nr.	99		
Text	**Default**		
Function	Factory default settings.		
Settings with '?'	***N/A***		
Default321563254567895	The device will be set to default after a correct IMEI number has been entered.		
Access Rights	Admin	License	Base

Command Nr.	100		
Text	**GPRS**		
Function	Activation of sending the device status by GPRS.		
Settings with '?'	***GPRS=(No),UDP,TCP***		
GPRS=No	*GPRS is not active.*		
GPRS=UDP	*A SMS message on GPRS status will be sent by UDP protocol.*		
GPRS =TCP	*A SMS message on GPRS status will be sent by TCP protocol.*		
Access Rights	Admin	License	Full

Command Nr.	101		
Text	**GPRSAPN**		
Function	A name of internet access point.		
Settings with '?'	***GPRSAPN=internet***		
GPRSHOST=111.22.33 .44	*Adding of the access point name..*		
Access Rights	Admin	License	Full

Command Nr.	102		
Text	**GPRSHOST**		
Function	A destination IP address or a domain name to which data will be sent.		
Settings with '?'	***GPRSHOST=www.domain.com***		
GPRSHOST=111.22.33 .44	*Adding of the destination IP address.*		
Access Rights	Admin	License	Full

Command Nr.	103		
Text	**GPRSPORT**		
Function	**Cílový port GPRS spojení**		
Settings with '?'	***GPRSPORT=0***		
GPRSPORT=40000	*Adding of cport for GPRS connection.*		
Access Rights	Admin	License	Full

Command Nr.	105		
Text	**CntDiv**		
Function	A divisive constant (conversion factor) for impulse counting. After the number of this constant has been reached, the final impulse counter will be increased by 1. Allowed range is 1 to 30000.		
Settings with '?'	***CntDiv=0***		
CntDiv=1000	*The counter value will be increased by 1 after reaching a thousand impulses.*		
Access Rights	Admin	License	Full

Command Nr.	108		
Text	**NextTime**		
Function	Time of the next test at the digital input, if the alarm has been activated, range 0 to 3600 seconds.		
Settings with '?'	***NextTime=0***		
NextTime=60	*A digital input test will be postponed by 60 seconds.*		
Access Rights	Admin	License	Full

Command Nr.	111		
Text	**SeparApply**		
Function	Text from internet gateway between separators will applied to all commands		
Settings with '?'	***SeparApply=(No),Yes***		
SeparAplpy=No	*It deactivates the separators for SMS.*		
SeparAplpy =Yes	*It activates the separators for SMS.*		
Práva	Admin	License	Base

Command Nr.	112		
Text	**Separators**		
Function	Configuration of starting and ending separators. A text in an incoming SMS message will be separated from the message, and for subsequent processing only the text between these separators will be used. If these separators are not found in the SMS message, the message will be ignored. It is applicable e.g. for GOOGLE Calendar and other Internet SMS gateways.		
Settings with '?'	**Separators=:.**		
Separators=;*	The following characters will be used as separators: **;** for the start and ***** for the end of the text.		
Access Rights	Admin	License	Base

Command Nr.	113		
Text	**Bluetooth**		
Function	Activation and deactivation of the Bluetooth interface used for wireless configuration by the IQcontrol terminal (Windows/Android/IOS). Reboot is needed for activate.		
Settings with '?'	***Bluetooth=No,(Yes)***		
Bluetooth =Yes	*It activates the Bluetooth interface.*		
Bluetooth =Yes	*It deactivates the Bluetooth interface.*		
Access Rights	Admin	License	Base

Command Nr.	114		
Text	**License**		
Function	It adds a License key to unblock the Licensed commands and functions. The License is not transferable.		
Settings with '?'	***License=Base***		
License=0154asdf524sf 1df524f24f4dfg24g5sdg	*It activates the License.*		
Access Rights	Admin	License	Base

Command Nr.	115		
Text	**IMEI**		
Function	It sends back the IMEI device number.		
Settings with '?'	***N/A***		
IMEI	*IMEI 251236598745125*		
Access Rights	Admin	License	Base

Command Nr.	116		
Text	**IVRSoundDelay**		
Function	Delay in playing the individual menus in the voice selfservice centre, interval of 0 to 10 seconds.		
Settings with '?'	**IVRSoundDelay=*2***		
IVRSoundDelay=0	*Sounds are played immediately.*		
IVRProdleva=0			
Access Rights	Admin	License	Medium

5 Control by IQcontrol Suite for WINDOWS

For a maximum comfort and easy operation, a program package IQcontrol Suite for WINDOWS has been developed. You can start to use IQcontrol Suite after its downloading from the source www.iqtronic.com/download and its installation. A Bluetooth adapter is necessary only for communication with the device. It is not required for making a list of authorised numbers, developing your own voice selfservice centre and your own texts of commands, responses and other texts in the device.

After correct installation the following icon (selected as standard) will be displayed on the desktop:

After clicking on this icon the IQcontrol Suite programs folder will start up:

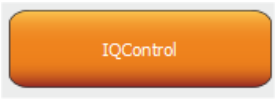
IQcontrol – required BT interface, serves as a terminal for configuration and control of the device in a wireless way, free of charge – without SMS.

Commands Editor - program to edit and write your own commands/responses and auxiliary texts in the device.

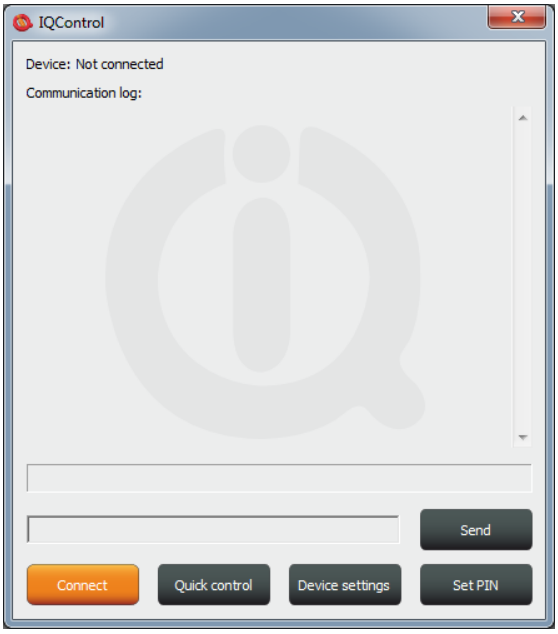
Numbers Editor – used to edit and add authorized numbers.

IVR Completor – Creating your own voice selfservice.

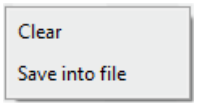
5.1 IQControl subprogram



A comprehensive, but very intuitive, software out of IQcontrol Suite package, serving mainly as a terminal for controlling the device wirelessly via Bluetooth.
It consists of quick control buttons, data upload/download in/from the device tab and of the PIN set button for access via BT. This chapter provides a detailed description of these buttons. The following description applies to a pre-defined set of English commands; if you choose to upload a set of commads in another language, then commands and responses will be displayed in your chosen language.



Device: Not connected, terminal is not connected to any device; if it is connected, the name of the device will be displayed (Devicename).
Communication log: All strings are listed in this window; you can easily scroll through log messages using the scroll bar.

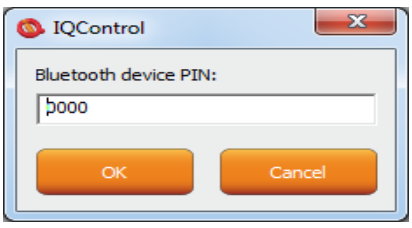


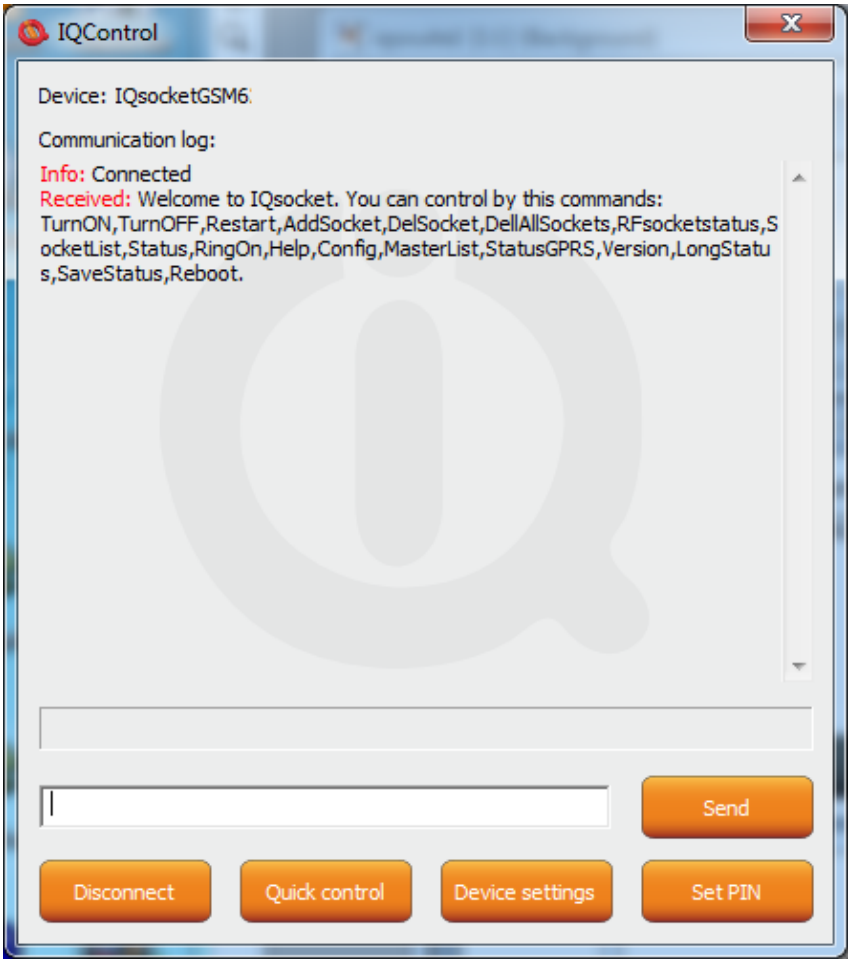
If your mouse cursor is located in the IQcontrol program desktop, you can right-click to clear log messages (**Clear**), or to save them in a file (**Save into File**).

When clicking the 

button a window appears in which there are displayed all searched devices with pre-defined device names (devicename).

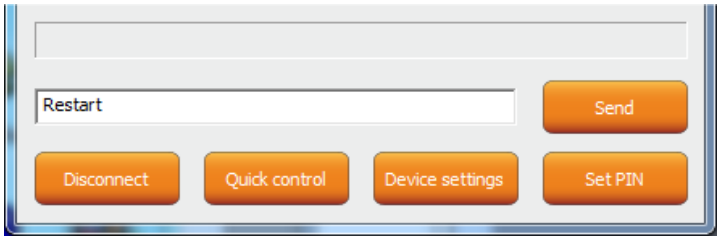
Since all devices have been configured by factory default to have the identical name IQSocket, for a better orientation the last 4 digits from the device's IMEI are attached to this name. After you have clicked on your chosen device, you can click the orange button "Connect to device", and then you will be required to enter the security pin (set by the **BTPIN** command), which is "0000" as default.



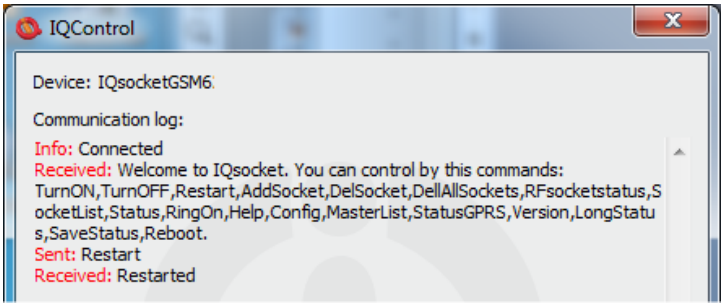


After the PIN has been accepted, connection with your chosen device will be activated. If you have been successfully logged in, the device will automatically display the welcome text and provide a list of control commands.
After 2 minutes of inactivity, the terminal will automatically disconnect, and you will hear the sound of falling cartridge. In case of a failure, when the following message will appear: Info: Can not connect to Bluetooth device, please repeat the procedure, check whether the device has not been turned off, restart a BT adapter and run again the IQcontrol application. If the adapter has not been conected/installed, the following message will appear: Info: Can not find Bluetooth adapter .
All software buttons will be activated.

You can control the device using commands which you are required to enter in the text window (here e.g. the command for restart of the socket) and send them by this button:

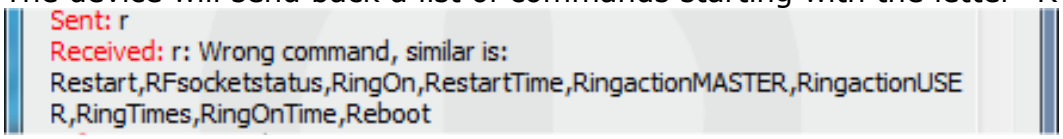


If the command is correct, then the device will perform the given action and give back a response (in this example: Restarted.)

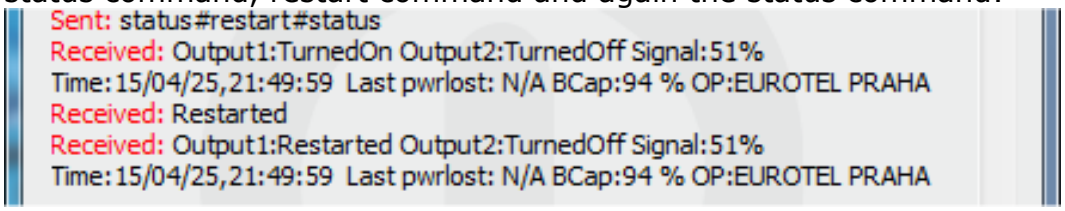


Now, we show you the speciality of internal parser processing.
We assume that the user does not know commands and in case of control by SMS no welcome SMS how to control the device is available. However, he/she remembers vaguely that the command starts with the letter "R".

He/she will send only the letter "R".
The device will send back a list of commands starting with the letter "R":

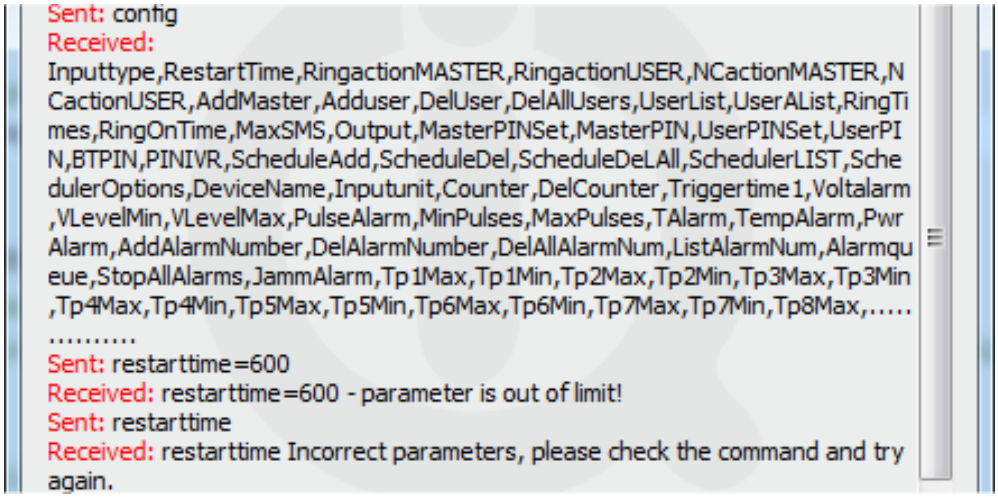


We have made a further strong simplification, namely sending a full range of commands in one SMS message up to the size of SMS, i.e. 160 characters. Commands must be separated by the symbol "#"; here, as an example, we send the status command, restart command and again the status command:

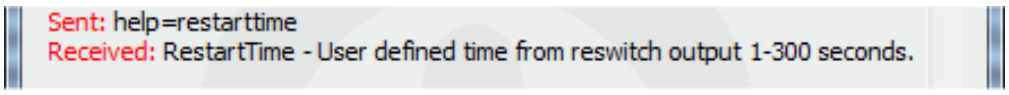


One response/SMS message is sent to each command (according to the size of response there can be also more SMS messages).

In case of an incorrect parameter (parameter command with the symbol =) or the parameter value is out of limit, the device will send a response on an error parameter (text of the command is correct) and/or incorrect limits; here e.g. the **RestartTime** command:



If you wish to know the correct limits without using the user guide, you can use the HELP=RestartTime command.

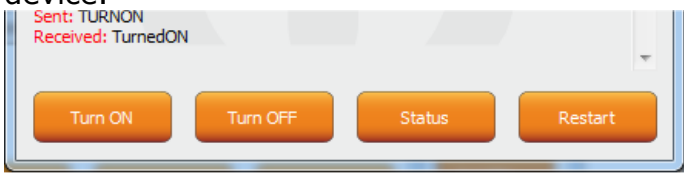


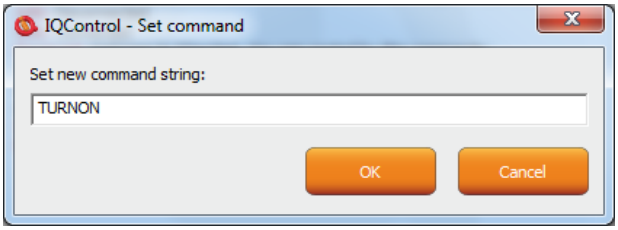
Note...

Neither the system time nor the signal quality are updated in case of the IQcontrol terminal connection via Bluetooth.

Quick Control Buttons

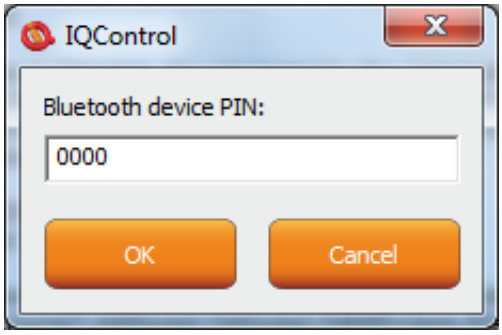
The program includes the quick control features in order to control commands in a simple and fast way.
After clicking "Quick control", there will appear four buttons with the most used commands: TurnOn/Zapni, TurnOff/Vypni, Status/Stav, Restart/Restart; after just clicking one of the above-mentioned, the particular command will be sent to the device.





You can customize text of any command by using a right-click. Click the X button to close the Quick Control window and you will get back to the IQ control main menu.

Button 



It allows the user to set a PIN code that will be saved and used for next login.

Button 

After a click, a window with push buttons which have an important function will open.

Upgrading the internal firmware.

Uploading a new voice selfservice file into the device.

Uploading a set of user numbers into the device.
It is necessary to have **Medium License!**

Uploading the device configuration file.

Downloading the configuration from the device into the file.

Uploading commands/responses, e.g. another language; for own set of commands it is necessary to have **Medium License!**

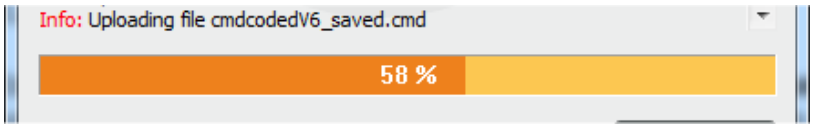
Downloading commands from the device into the file.

Downloading all log events from the device's internal log into a text file.

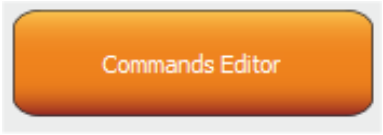
In case of uploading the security list into the device, you can upload a text file generated by using either the **Numbers Editor**, a part of IQcontrol Suite software, or generated by the user himself/herself.
It is a common text file in which each number is added into one individual line and without spaces. The file must have a file extension ***.sec**
Here's an example of the modified file "mynumbers.sec":
420123456789,alias2
420111111111
420123333333,alias3
Syntax is identical to the SMS command **AddUserNumber.**
If a line is not entered correctly, it will be ignored and the number will not be uploaded.

Note...

The transfer speed is 115200 bps .
It can take several minutes to upload larger files e.g. IVR. The status of the upload is indicated by a progress bar, and if the file has been successfully uploaded, the text ***succesfully*** *will be displayed, in other cases the file is not correct.*



5.2 Commands Editor subprogram



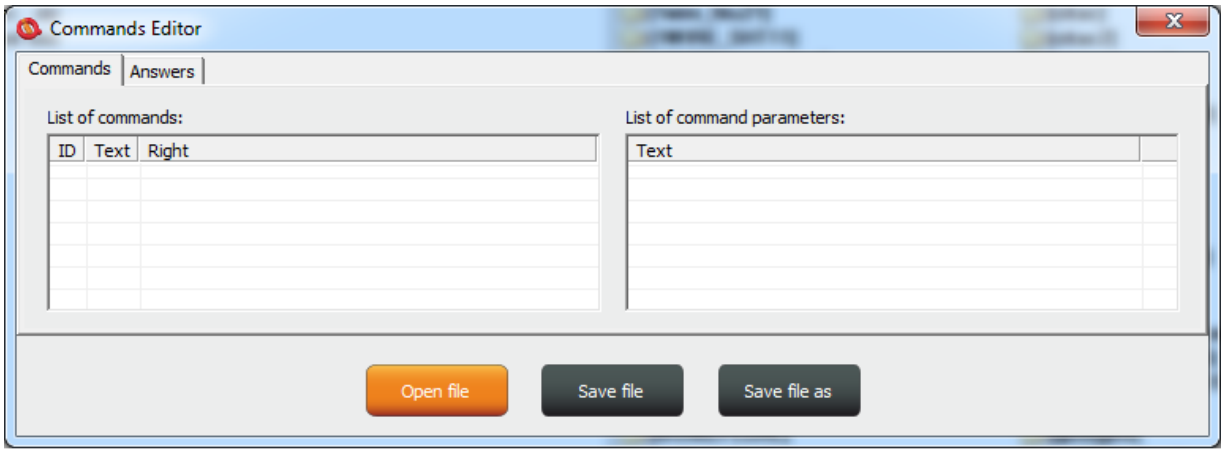
It is the most interesting subprogram which allows the user to edit not only any text in the device, i.e. text of commands and responses to them, but also the texts that are recorded in the internal log of the device, texts of alarms and in case of responses the syntax and configuration location as well. You can draw up your own response to the **STATUS** command including all device parameters.
You can also modify the authorisation of the Admin/User commands.
To modify the above-mentioned, first of all, you need to get source data, which can be downloaded by using the **Device settings** button described above, then the Download Commands button, and the file name can be e.g. test1.cmd.

If downloading from the device, only the number of packets will be displayed, because files are short, and so transfer takes a few seconds.

You can open the downloaded file in the Commands Editor.

Note...

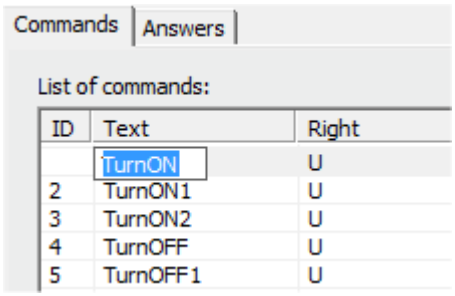
It is necessary to have activated the MEDIUM License.

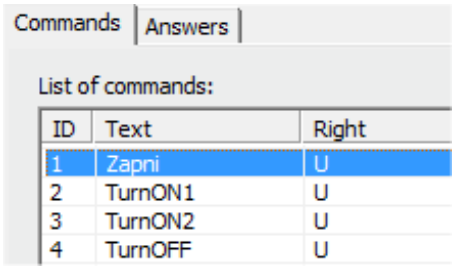


If you wish to read the file, use the Open File button and upload the file test1.cmd. If the file is correct, it will be displayed, in other cases an eror message will appear.

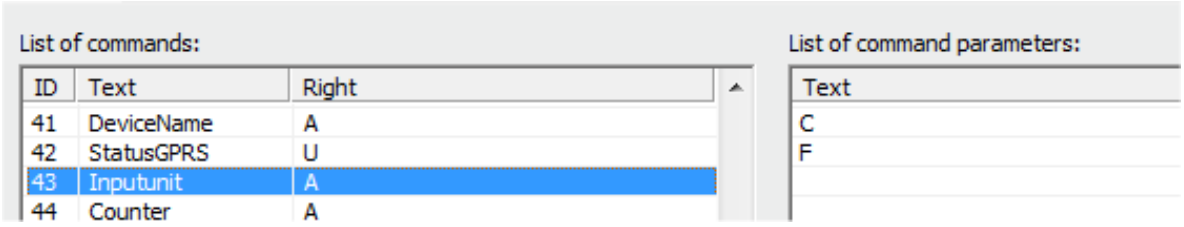
The software is made again very intuitive, the **Commands** tab consists of two windows: **List of commands,** where control commands are displayed, and **List of**

command parameters, where potential command parameters are displayed, those that are selected by the symbol "=". You can change only single texts, it is not possible to add or delete commands. After the file has been uploaded, the commands will be displayed and arranged in the table according to their number.
If you wish to modify a command, click the given command and edit it, and the change will be made after clicking **ENTER** button.



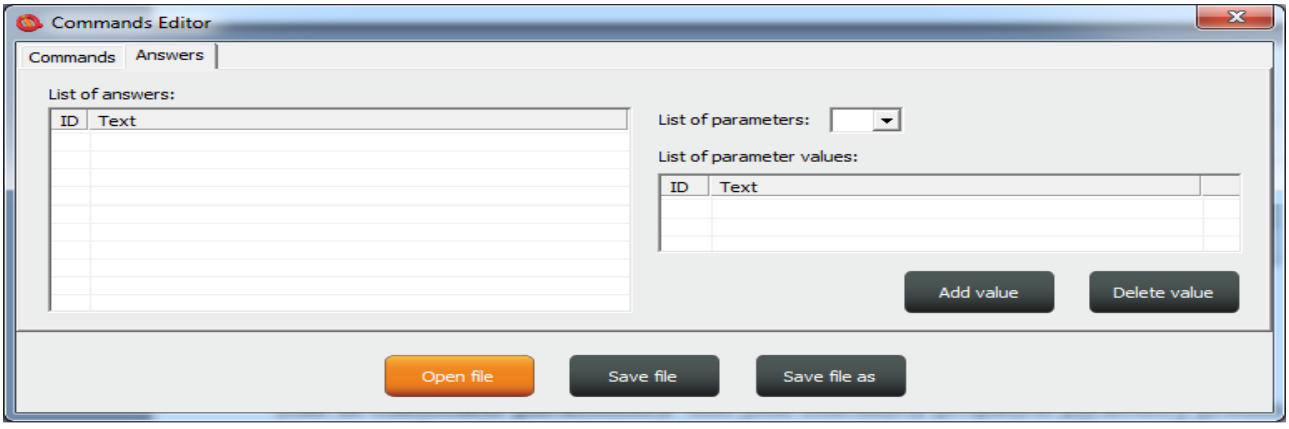


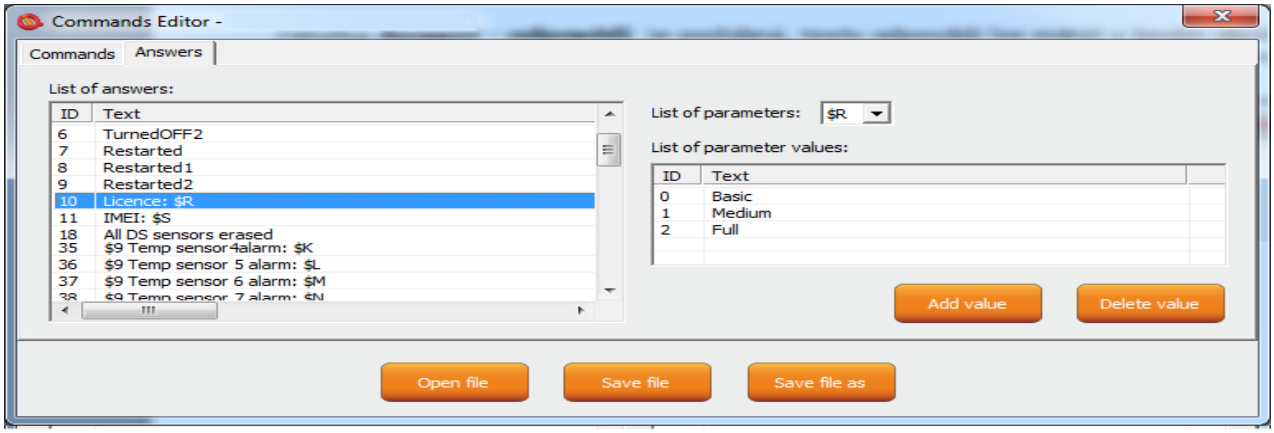
If you select a command containing text parameters, for example temperature units **TempUnit**, the text of parameters will be displayed n the right window, and these parameters can also be modified.



The column **Right** means access rights, if **A** - Admin is assigned, only the Administrator is allowed to use the commands, in case this number has been selected, if not, then any user can use them.
The symbol "**U**" means users, if these are set as authorised user numbers. It is possible to edit them and specify which commands will be made available to users.

The **Answers** tab is similar, texts of responses can be modified in the left window **List of asnwers,** and parameters, if existing, will be displayed in the right window. You can delete, edit and add new parameters. You may also edit answers provided by the intelligent help, but it is not recommended to do that, since this would result in chaos in the file.





Parameter in the response is always indicated by the symbol $ and the following symbols 0-9,A-Z, which can be modified manually. Here, this is an example of editing the response to the command "License: $R".

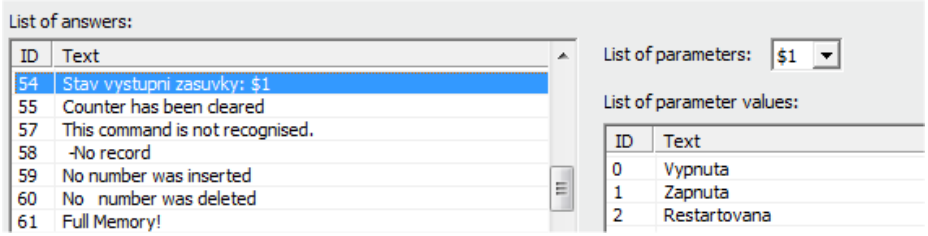
"$R" is fixed parameter of the device response, instead of which internal device parser will add a numerical value. However, if a text equivalent for the given number has been defined in the left window, then the selected text will appear instead.
Therefore, the answer can be "License: Basic", "License: Medium", or "License: Full".
For each **numerical** parameter in any answer, a text equivalent, that will be displayed instead of this numerical value, can be assigned.
The **List of parameters** option presents valid parameters for answers in the right window.
If a parameter does not exist, the device will insert the text UDEF (undefined).
If a text equivalent is out of limit, the device will add N/A (not applicable).

The following is the specification and meaning of the applicable parameters:

$1 - Output status 0, 1 and 2 (restarted) ; *numerical parameter*
$4 - Digital input status 0 and 1 ; *numerical parameter*
$5 - A/D input voltage value ; *numerical parameter*
$7 - Signal, *numerical* 0 up to 100 ; *numerical parameter*
$8 - Last power lost time ; *text parameter*
$9 - Device name ; *text parameter*
$A - Temperature unit 0 and 1 ; *numerical parameter*
$B - System time ; *text parameter*
$F - Pulse counter ; *numerical parameter*
$G - Network operator ; *text parameter*
$H - Temperature sensor 1 ; *numerical parameter*
$I - Temperature sensor 2 ; *numerical parameter*
$J - Temperature sensor 3 ; *numerical parameter*
$K - Temperature sensor 4 ; *numerical parameter*
$L - Temperature sensor 5 ; *numerical parameter*
$M - Temperature sensor 6 ; *numerical parameter*
$N - Temperature sensor 7 ; *numerical parameter*
$O - Temperature sensor 8 ; *numerical parameter*
$P - Jamming Detected 1 and 2 ; *numerical parameter*
$Q - System temperature ; *text parameter*
$R - License 0, 1 and 2 ; *numerical parameter*
$S - IMEI ; *text parameter*

Example
In order to make a simple response to the **STATUS** command with only one parameter about the output socket status, we can edit a text on the position ID54 in the **List of answers** window to "Output socket status: $1".
This parameter can only have the following values: 0 – turned off, 1 – turned on, 2 – restarted.
If we do not insert text aliases, the following response will be sent back:
Output socket status: 0
Then we add text aliases into the right window by using the button: 

The result will be as follows:

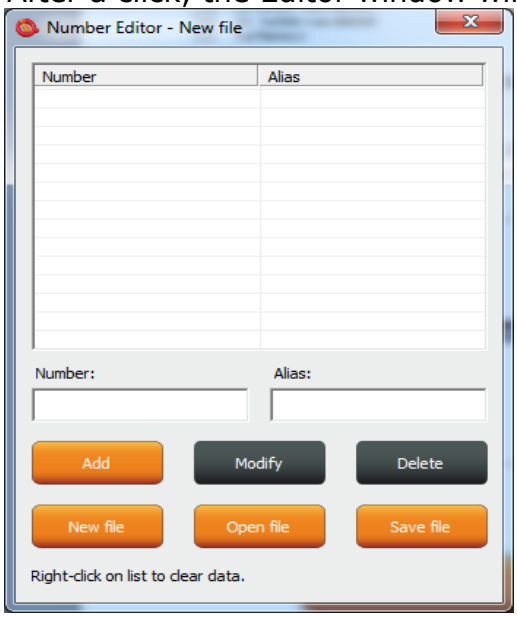


And the device will send back a response with the substituted text: **Output socket status: Turned off.**

We will save the final file into a PC and upload it by using the **Upload Commands** button as described above. After a restart, the device will then operate with new commands.

5.3 Numbers Editor subprogram

A software for making lists of user numbers to be used for authorization, security. The user can make such a file manually using a text editor.
For instance, as said above, if the user does not want to risk mistakes when making a list, then this subprogram for making lists and editing provides a full comfort to the user.
After a click, the Editor window will be displayed:



Number is designed to enter a user's telephone number, **Alias** is optional and is used for a better orientation in the user numbers.

Add button, after a click, the syntax will be checked, and if it is correct, the given number will be added into the list. You can upload up to 1000 numbers into the device; subsequent numbers will be ignored.
Modify button, after a click in the line with a number and then clicking the Modify button, it will be activated and displayed orange and you can edit the record.
Delete button will delete the given number from the list.

New file – it will save it as a new file with a new name.
Open file – it will open the existing file.
Save file – it will save the opened file with the identical name.

The file will have a file extension *.sec and then you can upload the file into the device.

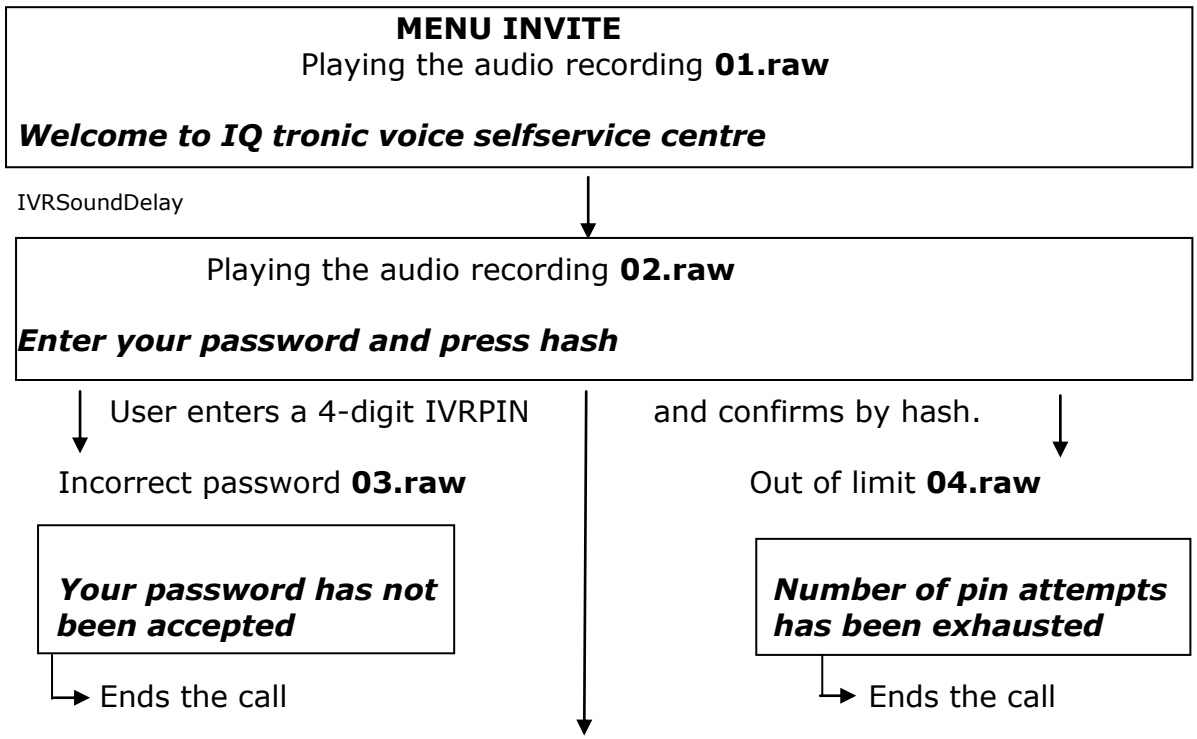
5.4 IVR Completor subprogram

By using this subprogram, the user can create an own voice help.
It is a simple subprogram that can complete individual audio recordings into a file that is to be uploaded into the device. You are required to record sounds either by means of a professional sound studio, doing your own sampling, or by using a voice synthesizer.

Here you can see the structure applied for voice control.

1. After an action to an incoming call to IVR (Interactive Voice Response) has been configured, the device will answer this call and start to play gradually audio recordings; it is required that recordings are numbered correctly from 01.raw up to xx.raw. The format of recordings is RAW (i.e. uncompressed data with no header information) MONO, 8 bits and sampling frequency of 11 025Hz, i.e. 11KHz. It is important that you do not forget to use the digit "0" before digits "1" to "9", and hence 01.raw is the number of the first recording.

And now, the structure of IVR menu will be described below in order to understand interaction.



MENU START

In case of **UserTypeIVR=SHORT** the device will be restarted and will end the call – suitable to be used as a door opener.
In case of **UserTypeIVR=LONG** we continue to

Playing the audio recording **05.raw**

To controll this device, press one -> ***MENU CONTROL***

IVRSoundDelay

Playing the audio recording **06.raw**

To get status of this device, press two -> ***MENU STATUS***

IVRSoundDelay

Playing the audio recording **07.raw**

To setup security settings, press three -> ***MENU SECURITY***

MENU START

IVRSoundDelay

Playing the audio recording **08.raw**

To send controll commands to your number by SMS, press four -> ***MENU SMSHELP***

IVRSoundDelay

Playing the audio recording **09.raw**

To send status of device to your number, press five -> ***MENU SMSSTATUS***

IVRSoundDelay

Playing the audio recording **10.raw**

To end this session, press hash or end call

MENU CONTROL

IVRSoundDelay

Playing the audio recording **11.raw**

Device output is

Playing the audio recording **12.raw** **or** Playing the audio recording **13.raw**

Turned on **Turned off**

IVRSoundDelay

Playing the audio recording **14.raw**

To turn off, press zero

IVRSoundDelay

Playing the audio recording **15.raw**

To turn on, press one

IVRSoundDelay

MENU CONTROL
Playing the audio recording **16.raw**

To return to main menu, press hash **# -> MENU START**

MENU STATUS
IVRSoundDelay
Playing the audio recording **11.raw**

Device output is
Playing the audio recording **12.raw** **or** Playing the audio recording **13.raw**

Turned on **Turned off**
To automatically return to the **MENU START**

MENU SMSHELP
IVRSoundDelay
Playing the audio recording **17.raw**

SMS will be sent after end of this session
To automatically return to the **MENU START**

MENU SMSSTATUS
IVRSoundDelay
Playing the audio recording **17.raw**

SMS will be sent after end of this session
To automatically return to the **MENU START**

MENU SECURITY
IVRSoundDelay
Playing the audio recording **18.raw**

To change your password, press one **-> MENU PASSWORD**
IVRSoundDelay
Playing the audio recording **19.raw**

To change list of authorized numbers, press two **-> MENU NUMBER**
IVRSoundDelay
Playing the audio recording **16.raw**

To return to main menu, press hash **# -> MENU START**

MENU PASSWORD

IVRSoundDelay

Playing the audio recording **20.raw**

Your password is: *Your PIN will be played back, file names for digits are provided at the end of IVRmenu.

IVRSoundDelay

Playing the audio recording **21.raw**

Enter your new password and press hash

Waiting for new PIN confirmed by key #

IVRSoundDelay

Playing the audio recording **22.raw**

Your new password is: *Your PIN will be played back, file names for digits are provided at the end of IVRmenu.

MENU PASSWORD

IVRSoundDelay

Playing the audio recording **23.raw**

To confirm and return to main menu, press hash, to activate all passwords press zero, to enter new value press star

Key # to save the entered PIN only for IVRMENU and return to **MENU START**
Key 0 to save the entered PIN for PINIVR, PINBT and USERPIN and return to **MENU START**
Key * -> MENU PASSWORD

MENU NUMBER

IVRSoundDelay

Playing the audio recording **24.raw**

Enter new number and press hash

Waiting for entering a phone number and the key #

IVRSoundDelay

Playing the audio recording **25.raw**

You have entered number: *Your PIN will be played back, file names for digits are provided at the end of IVRmenu.

Waiting for entering a phone number and the key #

IVRSoundDelay

Playing the audio recording **26.raw**

To setup administrator rights, press one

IVRSoundDelay

Playing the audio recording **27.raw**

To setup user rights, press two

IVRSoundDelay

Playing the audio recording **28.raw**

MENU NUMBER

To delete from list, press three
IVRSoundDelay
Playing the audio recording **29.raw**

To get type of rights, press four
IVRSoundDelay
Playing the audio recording **30.raw**

To delete all users, press eight
IVRSoundDelay
Playing the audio recording **31.raw**

To enter new value, press star *** -> MENU NUMBER**
IVRSoundDelay
Playing the audio recording **16.raw**

To return to main menu, press hash **# -> MENU START**

MENU NUMBER

Key **1** saves/overwrites the number as Administrator number and plays the sound file **32.raw**

Number has been saved
Key **2** saves the number as User number and plays the sound file **32.raw**

Number has been saved
*If the number cannot be saved, it plays the sound file **37.raw***

Number cannot be saved
Key **3** deletes the number from the list and plays the sound file **33.raw**

Number has been deleted
*If the number is not included in the list, it plays the sound file **36.raw***

Number is not in list
Key **4** finds out the rights of the given number and plays the sound files:
36.raw see above.
34.raw

Number have administrator rights
35.raw

Number have user right
Key **8** deletes all user numbers and plays the sound file **38.raw**

All numbers have been deleted

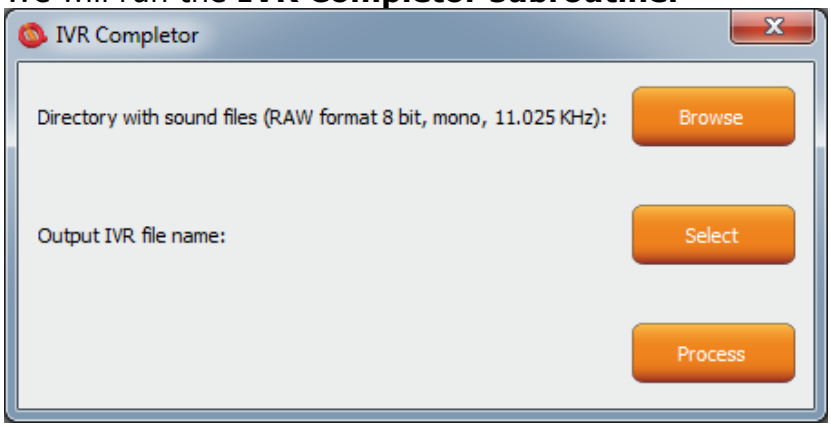
* File names for digits:

39.raw - 0 , zero
40.raw - 1 , one
41.raw - 2 , two
42.raw - 3 , three
43.raw - 4 , four
44.raw - 5 , five
45.raw - 6 , six
46.raw - 7 , seven
47.raw - 8 , eight
48.raw - 9 , nine

Note...

In case of the SHORT IVR option – for instance for an intelligent door opener, you can record only a welcome text/melody and potential error messages. If some recordings are missing, the device will not play these, but voice selfservice will stay active. SHORT IVR option is active only for USER numbers, a full voice selfservice is always available to the ADMINISTRATOR number.

Accordingly, we have completed the files.
We will run the **IVR Completor subroutine.**



The **Browse** button – we select a folder in which the files are located.
The **Select** button – we select a location and name of the final file which always has an extension *.ivr.
By using the **Procces** button, the completion of the sound files will start.

Note...

The maximum size of all files cannot exceed 1,5Mbyte, when uploading a longer file, an error message will be displayed. No IVR file is uploaded into the device in factory default settings, in this case the device will not answer a call.

You can then upload the final file by using the **UPLOAD New IVR** button.
You are required to have the MEDIUM License!

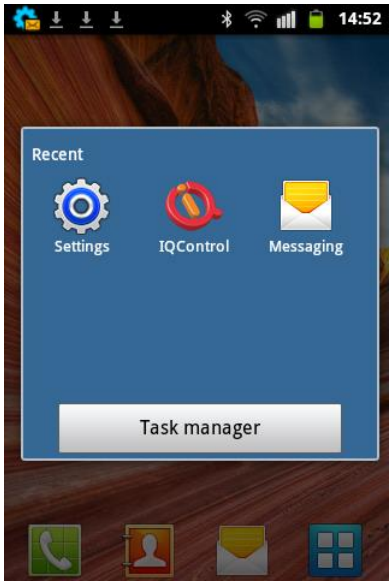
6 Control by IQcontrol Smart Application for OS Android

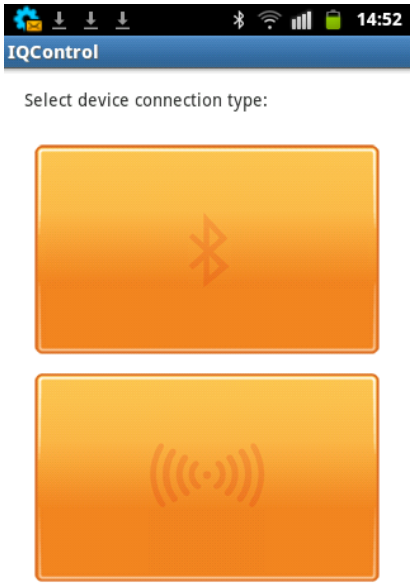
You can download the application from our site: www.iqtronic.com/download, or on the Google Play store, our company IQtronic technologies Europe s.r.o. offers the application FOR FREE.
Or, you can use the QR code to download by means of your mobile phone, this QR code is also included in the label with the IMEI number on each device.

The software can be also used on the ANDROID tablets with a Bluetooth interface. Control by SMS messages will not be available, however, you are allowed to use a more comprehensive control via a Bluetooth terminal.

After the application has been successfully installed, you will find the following icon on your desktop:

Click that icon to launch the application.





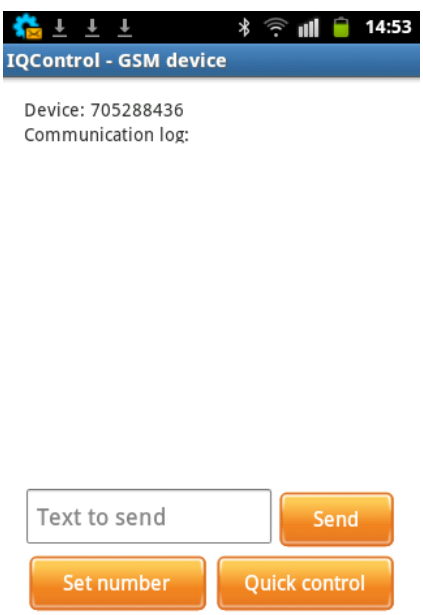
The button with a Bluetooth logo is used to control the device via wireless Bluetooth interface that needs to be turned on in your mobile phone.

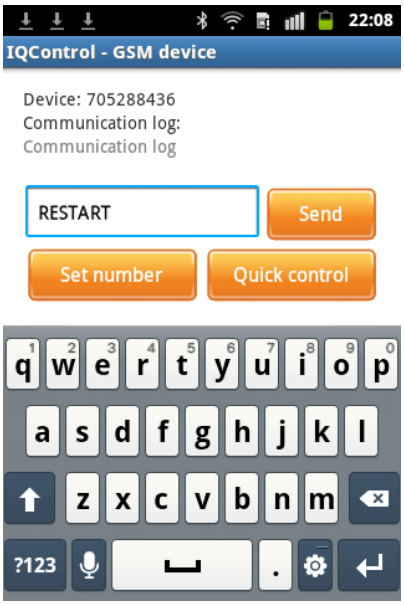
The button for control and configuration by SMS messages.

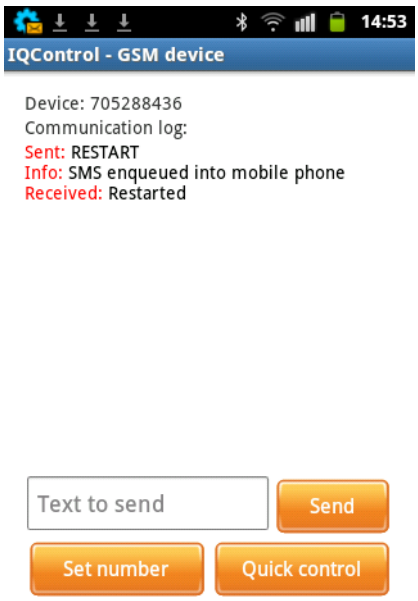
Note...

IQControl for OS Android software is identical to IQControl for OS Windows, except for missing control by SMS..

Control by SMS
Click this button:

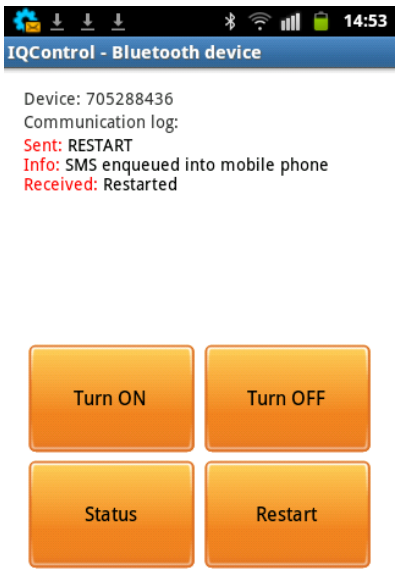


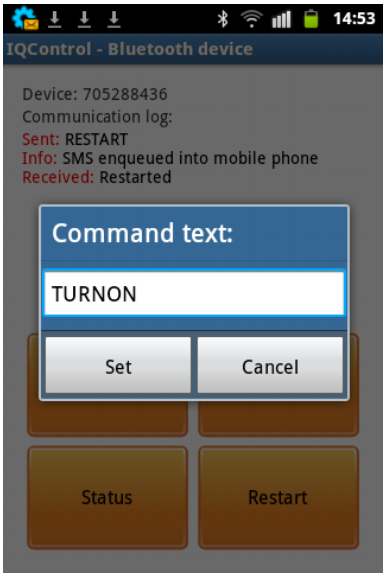




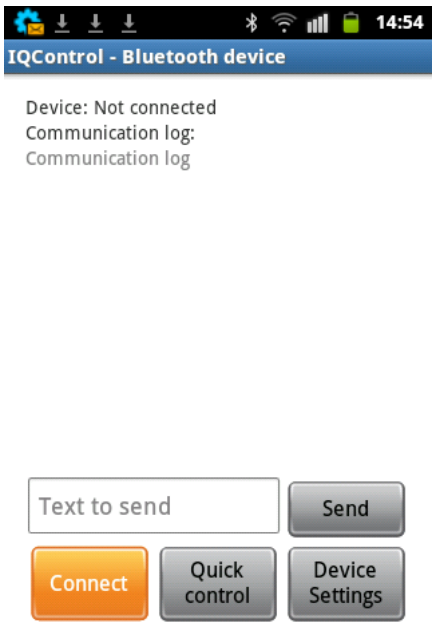
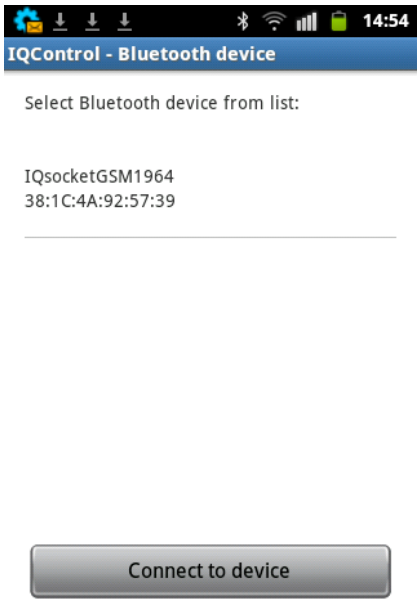
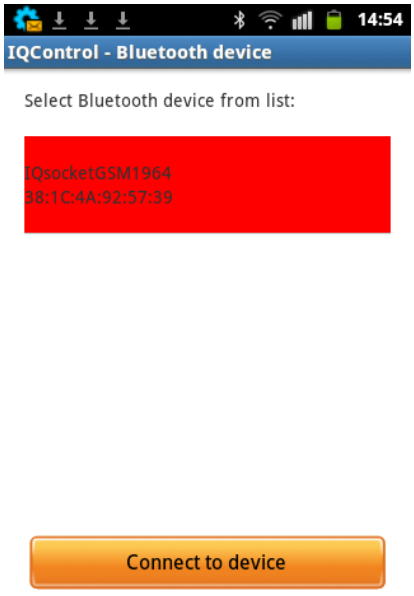
You enter the text of any command, e.g. **RESTART**, in the **Text to send** window. A SMS message will be sent and after receiving a response from the device it will be displayed in the Communication log window.

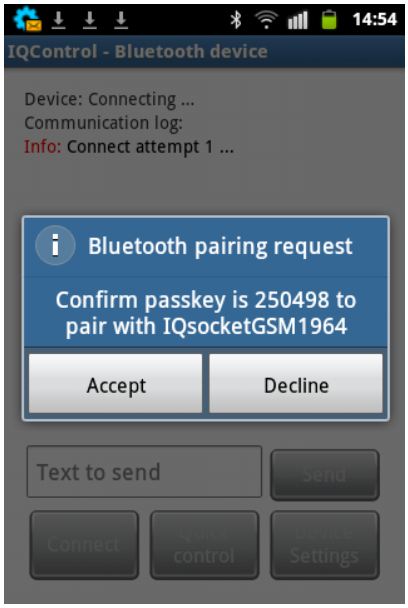
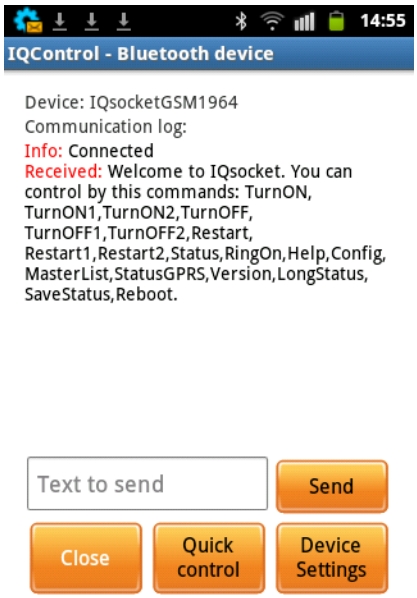
The **Quick Control** buttons are quick control keys, explained above in the IQControl Suite/IQcontrol software. They allow the users to make actions by a single click, and to edit received text by a long click.





Control by terminal via wireless Bluetooth connection
Click the buton:

After a communications terminal appears, click **Connect.**	The following window displays the IQSocket device that has been found.	Click the selected device and press the **Connect to device** buton.
		

Enter the PIN code "0000" which is a factory default value.	The following window will display a Bluetooth pairing request.	If the correct PIN has been entered, a communication window containing the welcome text will appear.
		

Further, control is the same as in IQControl software for OS Windows.

7 Using Integrated Push Button

An integrated micro push button is located in the device, can be accessible through a round hole of 2 mm at the most outer side of your socket.

1. A short press of the push button results in the change of your socket status.
2. When it is held down for more than 5 seconds and then released, all LED indicators will start blinking for a period of 10 seconds. If you press the button again within this interval, your device will be set to factory default; this does apply to all IQsocket devices.

If you connect temperature/humidity/RF adapter and other sensors for the first time, the LED **POWER** will start blinking green after running your device. The number of blinks means the number of found sensors. After a longer press of the button for more than 5 seconds, the ID of sensors will be saved into your device and the LED POWER will light up permanently green.
In this way you can save up to 8 sensors or adapters.

8 Universal input

Your IQTS-GS300 device is equipped with a universal input for connecting accessories. As it is the unversal input with a proprietary protocol, connection and configuration will be described for particular accessories, such as temperature sensor, humidity sensor, wireless adapter, fence monitoring system, A/D adapter, etc. To connect more sensors, please use IQ Socket splitter, that is offerred as an accessory.

9 Factory default settings

9.1 Manual configuration of factory default values

To restore the factory default configuration settings, push the button and hold it down for more than 5 seconds. Once you release the button, all LED indicators start blinking.
Pressing the button one more time will reset all IQTS-GS300 settings to their factory default values.

Note...

By this step you will not delete the activated sensors, LOG events, user numbers, uploaded set of commands and voice selfservice centre.

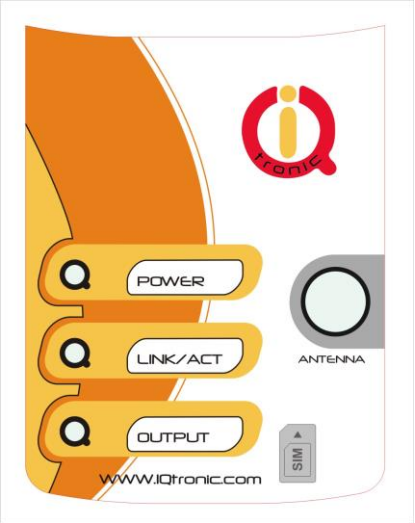
9.2 Factory default settings

SMS command EN	Parameter EN	License
InputType	Temp	Medium
RestartTime	30	Base
RingActionAdmin	NoAction	Base
RingActionUser	NoAction	Base
NCActionAdmin	NoAction	Base
NCActionUser	NoAction	Base
RingTimes	1	Base
RingOnTime	15	Base
SMSPerDay	50	Base
Output	Remember	Base
AdminPINSet	Off	Base
AdminPIN	0000	Base
UserPINSet	Off	Base
UserPIN	0000	Base
BTPIN	0000	Base
PINIVR	0000	Base
TempUnit	DegC	Base
TriggerTime	100	Full
VoltAlarm	No	Full
VLevelMIn	10	Full
VLevelMax	20	Full
PulseAlarm	No	Full
MinPulses	10	Full
MaxPulses	10	Full
DAlarm	No	Full
TempAlarm	No	Medium
PwrAlarm	No	Base
AlarmQueue	Always	Base
JammAlarm	No	Base
Tp1Min	20	Medium
Tp1Max	30	Medium
Tp2Min	21	Medium
Tp2Max	31	Medium
Tp3Min	22	Medium
Tp3Max	32	Medium
Tp4Min	23	Medium
Tp4Max	33	Medium
Tp5Min	24	Medium
Tp5Max	34	Medium
Tp6Min	25	Medium
Tp6Max	35	Medium
Tp7Min	26	Medium
Tp7Max	36	Medium
Tp8Min	27	Medium
Tp8Max	37	Medium
TControlMin	20	Medium
TControlMax	30	Medium
OutputControl	No	Medium
PINLimitsIVR	0	Base

PINLimitsBT	0	Base
UserTypeIVR	Long	Medium
GRPS	No	Full
GPRSAPN	internet	Full
GPRSHOST	www.domain.com	Full
GPRSPORT	0	Full
CntDiv	1	Full
NextTime	0	Full
Separators	:.	Base
SeparApply	No	Base
Bluetooth	Yes	Base

10 LED indicators

10.1 Functional indication



Your IQTS-GS300 has the following three colour LED indicators on its main panel:

POWER - red, when lighted, indicates power is being supplied to the device (230VAC). A green light indicates that sensors have been activated. If a green LED starts blinking for a short time, it indicates that sensors have been found at the universal input, a number of blinks corresponds to the number of found sensors. When it is lighted green and then fades out, it will indicate a number of newly found sensors, where the sensors found before have been already activated/saved into memory.
GSM – green, indicates GSM network, starts blinking for a longer time, approx. every second – searching for GSM network, a short blink indicates that your device has been connected to the network successfully. If the indicator is lighted red – a terminal is connected to your device via Bluetooth. A red light fades out - activity/data transfer via a Bluetooth terminal is performed.
RELAY - blue, when lighted, indicates the socket status: lighted – socket is ON, not lighted – socket is OFF.

10.2 Error conditions, LED indicators

POWER - red, blinks 2x per second, lighted and then fades out, a SIM card is not inserted.
GSM - green, blinks 2x per second, the SIM card with PIN request enabled has been inserted. You are required to disable PIN request by inserting the SIM card in a mobile phone and performing disable PIN using particular command in its menu. Blinks 3x per 2 seconds – SMS per day was exceeded .

11 Error messages

Wrong command, similar is:

A wrong command has been entered, your device does not know such a command; however, similar commands will be listed.

Incorrect parameters, please check the command and try again.

A correct command with an incorrect parameter has been entered. You can get a list of correct parameters after adding the "?" character. This applies to text parameters.

parameter is out of limit!

A correct command containing an out-of-limit parameter has been entered. This applies to numerical parameters. Correct limits are given in this guide, or you can use the HELP command, implemented in your device, for the particular command.

Commands file is corrupted!

The commands file is missing in the internal memory, or has been corrupted, for example as a result of overvoltage. Please upload the commands file again into your device.

12 Technical Specification

Model	IQTS-GS300
Mains own power, consumption	90- 240VAC 50-60Hz , 3W
Output	230V/16A, switching relay 30A
Operating temperature and relative humidity	-10 up to 50 °C , max 80 %
Environment protection	Normal 25°C, IP40
LED indicators	3x 3mm LED R,G,B
GSM	Quad band 850 / 900 / 1800 /1900 MHz SIM Plug-in 3V
Installation category	Class II, overvoltage max. 3000V
Features	Home appliances control by SMS, making a call, manually, automatically, by voice self service
Dimensions	LxWxH/w+plug, 140 x 65 x 55/92 mm
Weight	200g
Antenna	Integrated in the package – external 1dBi / VSWR 2,2
Antenna connector	SMA(f)
Lifetime of internall back-up element	>1000000 cycles at 25°C, 1000 hours over 50°C

Operation, maintenance and security & safety recommendations

- The product is not intended to be a security device or real thermostat, it provides this service only as supplementary.
- The product was designed only to indoor use, such as homes, offices, etc. Do not expose the device to liquid, moisture, or aggressive environment. Do not expose the product to an excessive vibration or shock, and prevent it from falling, as this may damage it.
- Before use, please check, if mobile phones can be used in the area, where you wish to install the device. If not, please do not put the product into operation, as it can have negative influence on other electronic systems!
- Please respect the maximum rating of 16A for the output socket. If you need to switch higher current load, please use an external contractor rated for target load. Switching higher than nominal rating currents and/or loads with severe inductive/capacitive character with high startup currents can cause permanent damage of switching element.
- Before using a SIM card, please delete all received SMS messages from your SIM card.
- The product is not a toy for children; a SIM card represets a small part that can be easily ingested.
- In case of signal level is lower than 80%, use an antenna with higher gain and better VSWR; otherwise it may result in damage of the antenna input.
- Do not use the product if it is disassembled.
- Antenna cannot be installed near metal objects; the device must not be installed in metal boxes, etc. An active part of antenna must not be located very near to the internal electronics of device.
- Controlled appliance should have an own protection by fuse and/or thermostat.
- The product is not fused, ensure it is installed in fused electric installation only.

13 Correct orientation of antenna

14 Set default commands in English

1. Press button and hold it.
2. Connect socket to power
3. Release button
4. Default commands is set now.

15 Warranty

The supplier provides warranty for IQTS-GS300 for up to 24 months starting from the purchase date and 6 months for internal back-up element. This warranty does not apply to damage resulting from abnormal use, and from breaking the operation recommendations as listed above in the user guide. Further, the warranty does not apply to mechanical and electric damage in the antenna input, universal input and internal switching element in case of switching appliances with improper load (inductive/ capacitive).

Serial number	Purchase date	Supplier's signature and stamp

No guarantee can be given if the product's serial number is not identical to the number stated in the Warranty Certificate, if it has been modified, deleted, or is illegible, if defects have been caused by mechanical damage, improper use (installation in unsuitable, humid environment, caustics poured over the product and others). Further, this warranty does not cover situations if defects have been caused by any outside event (overvoltage in network, electromagnetic field, improper range of work temperatures, disaster, and others), if incorrect voltage has been used in the product, in case of intervention of an unauthorized person, if the product has been modified or repaired.
This warranty becomes void if any person has made modifications or adapted the product in such a way that it will have more functions, or to operate the product in different country than the country it was designed for, manufactured and approved for. This warranty does not affect any rights, which the consumer may have according to valid legal regulations.

Warning for customers: We strongly advise you to keep your receipt of purchase, let the seller fill out a warranty certificate and keep this certificate as well.
In case of any warranty claim you are required to present a warranty certificate filled out accurately and clearly.

If this warranty certificate is not filled out accurately and clearly, then the warranty period begins from the purchase date as stated on your receipt of purchase.

16 Ordering and accessories

IQsocket product family uses following ordering code system:

IQTS-**GS300-X** Example: IQTS-GS300-F

Electric standard of plug/socket: **F=Schuko** , E=French, G=British B=USA, I-Australia/New Zealand, J-Switzerland, L-Italy, A-Japan, North America.

Type B - USA 15Amps
Japan, Canada, USA, Cuba, Mexico, Venezuela, Thailand, Taiwan and others.

Type E - French 16 Amps
France, Belgium, Denmark, Greenland, Monaco, Slovakia, Poland, Czech, Tunisia and others.

Type F - Schuko 16 Amps
Germany, Austria, Netherlands, Armenia, Croatia, Denmark, Finland, Greece, Italy, Slovenia, Turkey, Thailand and others.

Type G - 13 Amps
Cyprus, Belize, Hong Kong, Ireland, Malta, Malaysia, Singapore, United Kingdom and others.

Type I - max 15Amps
Australia, New Zealand, China, Argentina, and others.

Type L - max 16Amps
Italy, San Marino, Chile, Uruguay and others.

Type A
Canada, Belize, Cuba, Japan, Panama and others.

Type J - 10Amps
Switzerland, Liechtenstein, Madagascar, Maldives, Rwanda