Program GazSMS – operating instructions

Prior to initiation of the program

No installation of the program is necessary; download the entire Gaz directory to disc C:\ or desktop. It is also possible to create a shortcut and store it on the desktop; however, this is not necessary.

Prior to initiation of the program, a modem TC35i must be connected to the serial port by means of the communication cable; furthermore, it is necessary to connect modem TC35i to the power supply modem. Alternatively, it is also possible to use USB.

Now **wait approx. 20 seconds** until the completion of internal configuration of the modem and establishment of communication with the telephone operator.

Initiation of the program

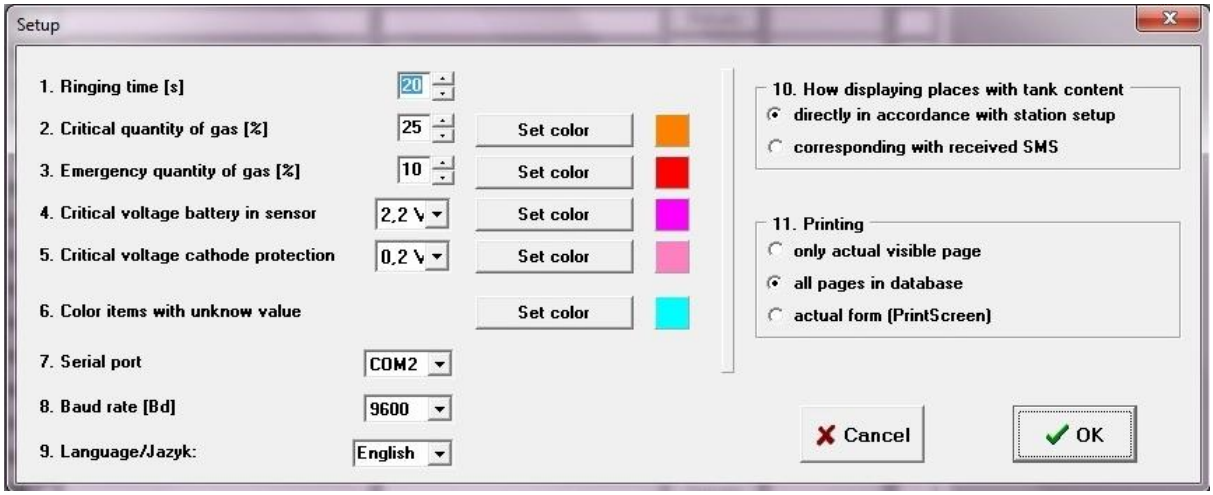
The program is initiated by order **GazSMS.exe**

By clicking on button [**Setup**] with a mouse, a setup window will appear *(Illustration 1)*; under item **7. Serial port,** select the corresponding serial port according to which port you have connected the modem. It is not possible to change the number of the serial port on the main panel if the communication is established or the connection is in progress! If you need to change the number of the serial panel on the main panel, you need to cancel the established connection or the connecting process.

8. Baud rate - doesn't have to be changed. It is optimally preset.

Under item **9. Language/Jazyk,** you can select a suitable language for displaying of names within the program, printing and identification of buttons.

The serial port needs to be set only upon the first initiation of the program on this computer. Its value will be stored and consequently, it will be only necessary to initiate the program.



///. 1. Setup window

Setup

Other items in the “Setup” window

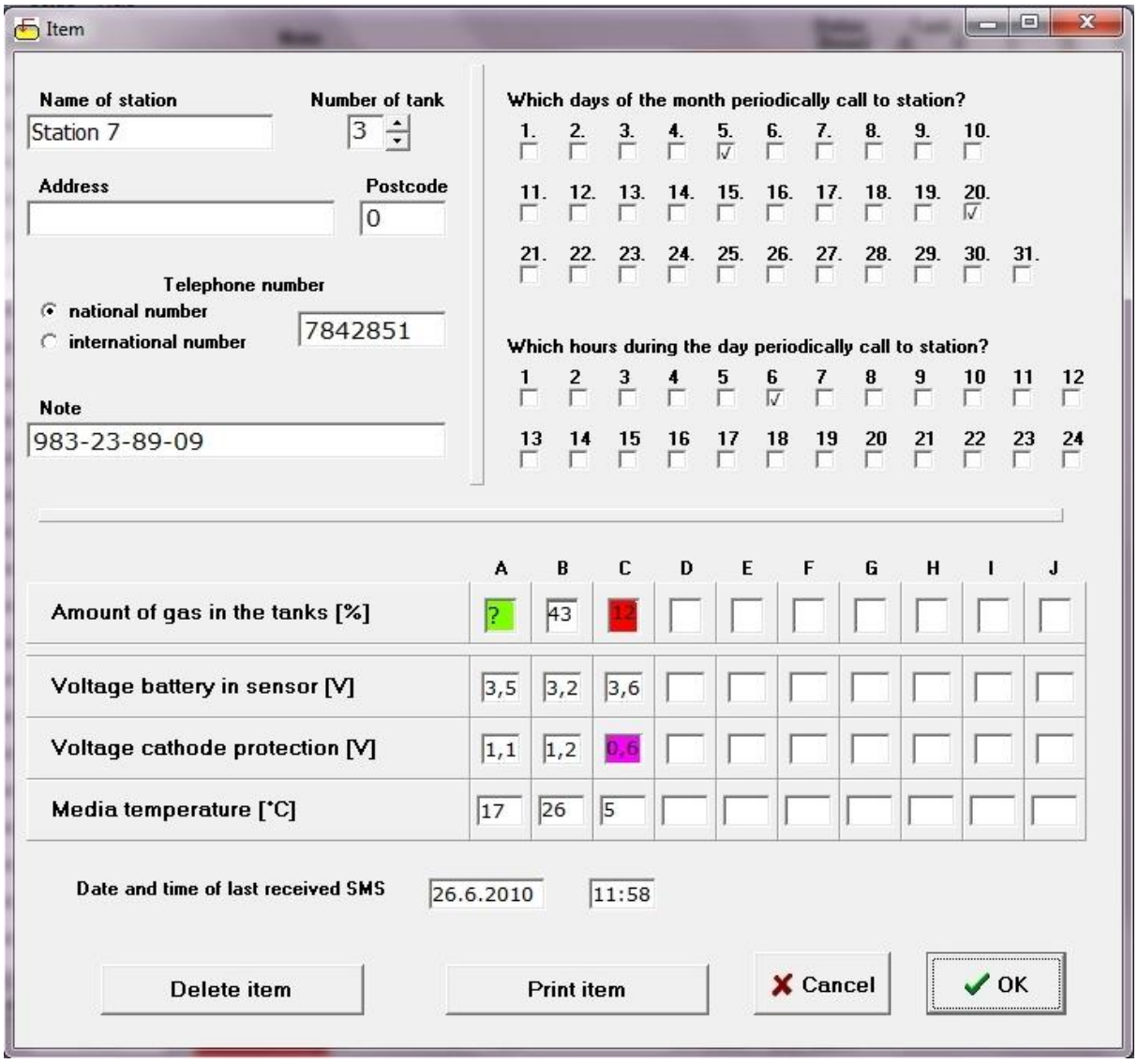
1. **Ringing time** – serves for the communication of the software and individual stations. The value is optimally preset, and there is no need to change it.
2. **Critical quantity of gas –** summarizes data in the table. If the quantity of gas decreases under the preset value, the background of the box behind the corresponding value changes color. This critical value in percentage can be changed at any time. Corresponding color in the window can be also changed any time – by means of the button [**Set color**]. Presently, the preset color is shown in the box on the right side.
3. **Emergency quantity of gas –** identical function as the previous item; however, the value of the emergency quantity of gas is usually lower than the critical quantity of gas. The value is preset identically.
4. **Critical voltage battery in sensor** – gas level sensors transmit information about voltage in individual sensor batteries to the program. Information is compared with this value and if lower, the box of the corresponding value changes color as preset in the box on the right. At the same time, the box “Voltage” on the main panel changes its color to red.
5. **Critical voltage cathode protection** – if the voltage of the cathode protection decreases below this preset value, the color of the box will change as preset. At the same time, the box “Voltage” on the main panel changes its color to red.
6. **Color items with unknown value** – if, for any reason, the quantity of gas in the tank cannot be determined, a question mark is displayed in the table and corresponding box and, for easy identification, the background changes to the preset color (color can be changed any time).

10. Displaying number of windows with gas quantity
    - In accordance with station setup – upon entering data of the station, the number of the corresponding tanks is entered. In the table, the determined number of the windows is displayed regardless of incoming data in the text message.
    - According to values received by text message – the number of the windows is determined based on the received text message. Thus, upon expansion of the station, it is not necessary to change the number of stations in the setup window.
11. Printing
    - Only actual visible page – only data of the stations actually visible on the screen will be transmitted for printing.
    - All pages in database – data of all stations will be transmitted for printing regardless of which page is visible at the moment.
    - Printscreen – entire screen will be printed as seen, including buttons.

To enable the storage of all changed data, click [OK] before leaving the window.

Station details

After clicking on the button [**Details**] on the main panel, a window for viewing, changing of data and setup of the particular station will open. *III. 2.*



III. 2. Window with details of the station

- **Name of station** – name of the corresponding station (main distinguishing specification of the stations and thus obligatory item)
- **Address** – location of the station (not displayed on the main panel)
- **Telephone number –** telephone number of the SIM card in the communicator at the station. Important in terms of assigning incoming text messages to accurate items in database (obligatory item)
- **Number of tanks** – number of tanks attended by a communicator at one station

- **Postcode** – postcode of the station
- **Note** – specifies characteristics of the station (also displayed on the main page of the program)
- **Date and time of last received SMS** – informs when the last text message with valid data was received from the selected station
- **Which days of the month periodically call to station?** - on selected days, the program will find out actual data by calling the station. Functions in accordance with the below-preselected values.
- **Which hours during the day periodically call to station?** - at selected hours and determined day of the month, the program automatically finds out corresponding data at the station.

The lower half of the window is completed by the program based on the received data from the stations. Each column corresponds to one tank. In the corresponding lines, you can find information about quantity of gas, voltage and temperature.
Data and time values disclose when such data were updated for the last time.

After clicking on button [**OK**], all data in the window will be stored and the window will be closed.

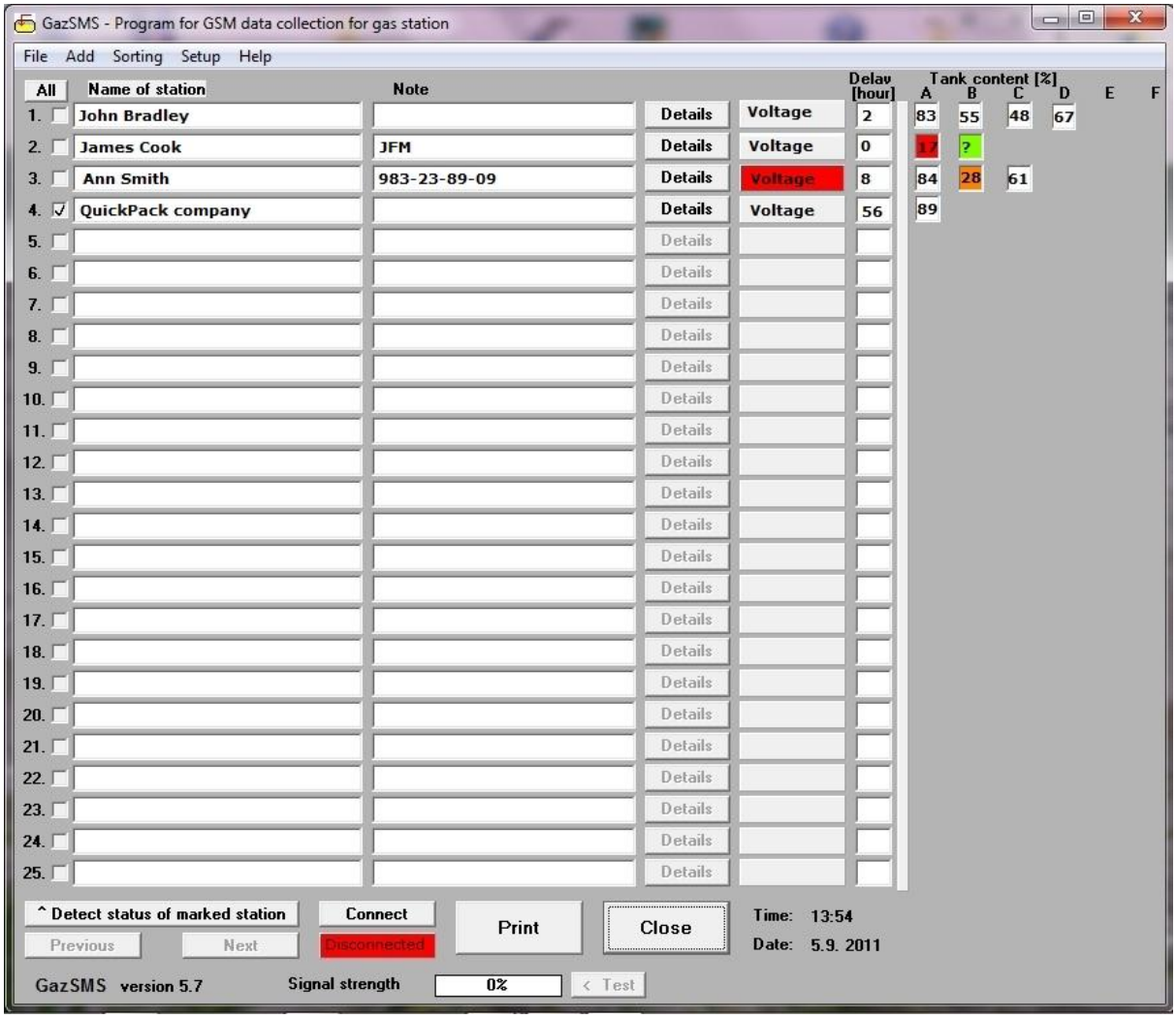
Main window of the program

The largest part of the window represents the table divided into 25 lines for individual stations and to several columns with the following functions and purpose. *Illustration 3*

- The first column with numbers **1.** to **25.** represents actual numbering of the station in the database. Order can change based on classification of the stations or removal of any station.

The second column with check boxes serves for selection of stations where actual status needs to be determined. The box remains checked if no communication has been established with the station. The communication is initiated by clicking on the button [**Detect status of marked stations**]. By clicking the button [**All**] above this column, all stations will be selected.

- **Name of station** and **Note** – there is no point to explain these items; value of these items can be changed in the window "Details".
- **Details –** serves for opening the window with detailed information about the station (described above)
- **Voltage -** if the voltage of the level sensor battery or cathode protection decreases under the preset value, this legend will be displayed in red. To find out in which tank and voltage source the voltage is low, click on the button [**Details**].
- **Delay –** information (hours) from the last received text message from the corresponding station. If this number exceeds 1,000 (longer than 41 days), it will be replaced by [**Err**] ("Error").
- **Tank content [%]** – max. 10 columns for displaying quantity of the gas in tanks. If the value decreases below "critical" or "emergency," color of the background changes as preset. The question mark means that the quantity in the tank wasn't determined.



III. 3. Main window of the program

Control buttons on the main panel

The main control buttons are located at the bottom of the screen.

[**Detect status of marked stations**] – by clicking on this button, the checked stations will be contacted

[**Previous**] / [**Next**] – reviewing individual pages of the database with 25 stations on one page

[**Connect**] / [**Disconnect**] – establishing communication with modem in the case of complications and/or cancellation of data transfer

[**Print**] – data printing

[**Connected**] / [**Disconnected**] – information about the status of data exchange with modem

[**Close**] – program termination

Time: and **Date:** actual data

Main Menu

[Main] > Close Alt+F4 termination of the program

[Add] > new station opens the window for entering data of the new station

[Sorting] > acc. to quantity of gas > ascending order sorting stations in the database according to quantity of gas (algorithm compares stations on lines where the lowest value of gas is deemed the representative)

[Sorting] > acc. to quantity of gas > descending order sorting stations in the database according to quantity of gas (algorithm compares stations on lines where the highest value of gas is deemed the representative)

[Sorting] > acc. no quantity of tanks > ascending order sorting stations in the database according the corresponding quantity of tanks – in ascending order

[Sorting] > acc. no quantity of tanks > descending order sorting stations in the database according the corresponding quantity of tanks – in descending order

[Setup] (see page 1)

[Help] (manufacturer)

Archiving

Upon receiving the data and recording of the value in the database, information is stored in an archive named based on the name of the station with ending ***.csv**

Archives are classified into directories according to individual years, e.g. “**safe2009, safe2010”,** etc.

Files in the program necessary in the directory Gaz

GazSMS.exe	main executable file
PORT.DLL	library necessary for communication with serial port
GazSMS.ini	configuration file where the last setup is stored
DataStanice.gaz	the only name of the file with information about other stations
CZE.lng	file with Czech language version
ANG.lng	file with English language version
RUS.lng	file with Russian language version
Help.pdf	file with help