

Dr.Bell-S3-GSM

SPEECH PROCESSOR - Alarm dialler and remote control.

User's Guide

1.0 Establishing a connection to set user settings

Call the telephone number, which has been assigned to Dr.Bell by means of the SIM card (see instructions for this in the installing papers)

Dr.Bell responds with a welcome message(can be changed by user), followed by "Enter code"
Enter this code (code is default set to 1) and Dr.Bell responds "Code accepted". And now you are ready to change settings for Dr.Bell and communicate with units, there are connected to Dr.Bell.

1.1 Hanging up

Finish the session by entering **0 0 0 #**, or it is **automatically done after 40 sec. without activity**.
Every 30 seconds without activity Dr.Bell says "Please, enter command".

Enter # - or any other valid command - to get another 30 seconds.

To get a quick introduction of the most essential setup tasks, refer to chapter 3.0 - STARTUP.

2.0 Programming summary

Function	Key	Value
Entering telephone numbers 1-5	*1 <i>telephone number</i> # *2 <i>telephone number</i> # *3 <i>telephone number</i> # *4 <i>telephone number</i> # *5 <i>telephone number</i> #	1-13 digits
Entering a delay from an alarm is detected until alarm call is carried out.	*62 <i>delay in min.</i> #	0-20 min. Default = 5 min
Entering a welcome message Replacing default message "Welcome to"	*71 0 <i>welcome</i> [#] - enter 0 to start recording and # to stop.	0-8 sec.
Entering name (informing from where alarm was generated) Replacing default message "Dr.Bell Speech Processor"	*72 0 <i>name</i> [#] - enter 0 to start recording and # to stop.	0-8 sec.
Recording user word 73-79 in dictionary. (Note, A total of 12 sec. including welcome and name)	*73-79 0 <i>word</i> [#] - enter 0 to start recording and # to stop.	0-8 sec.
Entering name of station Station is a controller or input associated an alarm unit. 1-3 words	*86 <i>stations number</i> * <i>word</i> * <i>word</i> * <i>word</i> # e.g.: word no.49 ="outdoor" word no. 44 ="sensor"	Default is "station"

Function	Key	Value
Scanning stations to be monitored.	*87 1 #	takes approx. 2 minutes, please wait.
Access code	*91 <i>access code</i> #	1-4 digits Default = 1
Dialling sequence: Entering no. of calls to the first number, before next number in sequence will be dialled.	*95 <i>no. of calls</i> #	0-9 Default = 3
Enable or disable Local alarm in loudspeaker (Also refer to * 98)	*96 word no..# E.g.: siren =201. User selectable words, word no. 73-79 may also be used.	Default = no sound!
Number to dial first: Number to be dialled as the first one.	*97 no. # E.g.: *97 3 # start alarm call sequence by using third telephone number.	Default = 1
Repeatable announcing alarm in loudspeaker (Note, if more than one alarm exists only the total number of alarms will be announced)	*98 1 # Once every minute alarm is announced by the speaker *98 * # Alarm announcement is disabled.	Default = 1 (enabled)

2.1 Setting verification

Ending command with an #

Example:

*1 #	first telephone number is announced.
*72 #	name is announced (if one has been recorded)
*87 #	Stations to be monitored, are announced.

2.2 Delete

Ending command with * #

Example:

*1 * #	first telephone number is deleted.
*72 * #	name is deleted.
*87 * #	Stations to be monitored are deleted. (No alarm monitoring!)
*96 * #	no local alarm in loudspeaker.

3.0 Startup

1. Enter telephone numbers (*1 - *5). At least one telephone number must be entered.
2. Perform a scan of connected stations. (*87 1 #).
When scan comes to an end, the total number of stations found are announced.
Please verify that all connected stations were found.
Note, if stations are added or removed a new scan is necessary.

3.1 Test-dialling

Enter * 9991 # to perform a test dial. Dialling begins immediately and the test sequence continues until a # is keyed in at the telephone which is called.

4.1 Service break

In case of service or such like it is possible to disable alarm supervision for a specified no. of minutes. When the intermission comes to an end, alarm supervision is automatically engaged.

Entering service intermission.	*61 <i>break length in min. #</i>	1-1440 min.
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Dr.Mayday has a button called PAUSE. When pressed a service break of 60 minutes will be initialised

4.2 Recording

It's possible to record * 71 - **welcome** ="Welcome to" and * 72 - **name** =" ". Additional seven words may be recorded (* 73 -* 79). These user recorded words (* 71 -* 79) may be used in the same manner as any other word, please refer to **WORD LIST**.

When and if a total of 12 sec. has been used to recording, recorded entries must be deleted to obtain space for new recordings. Try to make the recordings as short as possible.

4.4 Local alarm in loudspeaker

Normally this is not enabled, as the "repeatable announcing alarm in loudspeaker" ch.4.6 is more informative.

Local alarm can issue a siren like sound (word no. 201) in the loudspeaker - until alarm call is initiated. Please note, due to the fact that the volume of the loudspeaker is fairly low, this is NOT adequate as the only audio alarm. The loudspeaker alarm may be disabled by entering * 96 * # , or changed to another sound: enter * 96 <word no.> #. User recorded words (*71-79) may also be used.

4.5 Alarm call

After the delay (*62) expires, alarm call is initiated by calling the first number specified by the *97 command (default=1). If alarm is not acknowledged, alarm call is repeated every 30 sec. Dialling Dr.Bell in between alarm calls suspends alarm call, thus enabling the user to acknowledge alarms. If alarms are not acknowledged, 10 calls to each number is carried out. Alarm call to one number before dialling the next, may be specified with the *95 command.

4.6 Repeatable announcing alarm

Using the *98 1 # (factory default) command, alarm is announced in the loudspeaker once every minute. In order to stop local alarm and alarm call, acknowledging is still necessary. If more than one alarm exist only the total number of alarms will be announced. To disable announcement enter * 98 * #.

4.7 Acknowledging alarm(s)

Acknowledging alarms can be done in 3 different ways:

1. Pressing the START STOP key.
 2. Answering the telephone call and entering #.
 3. By calling Dr.Bell. Once access code is entered, alarms are acknowledged..
 4. Pushing the *code-key* located to the right on the print card.
- After acknowledgement alarms will be announced.
 - If new alarms occur the dialling sequence is initiated again.
 - Reoccurrence of an alarm and a subsequent alarm call can only occur if the specific alarm has been acknowledged.

5.0 Default settings

A complete restart of Dr.Bell is possible, thus deleting ALL settings made by the user and returning to default settings. To perform a complete restart push and hold down the *code-key* while 12 VDC is removed and restored. Upon restart Dr.Bell responds with "Memory reset".

6.0 Naming of stations

Stations (inputs) may be named using the *86 command.

Renaming:

"station 401" to "heating" "room" "1"

Entering: *86 401 * 104* 43* 1 # (104, 43 and 1 are word numbers that can be found in the WORD LIST)

To verify a station name, enter *86 <station no.>#

7.0 Requesting and setting parameters.

It is possible to request and to set various parameters on remote stations e.g. units attached to the RS-485 partyline.

In order to identify a station and it's various parameters, it has been assigned a station number and register numbers. Please refer to the users guide for the unit.

The speech processor enters setting mode in two different ways:

1. Connecting by dialling Dr.Bell. Note, access code is required.
2. Answering an alarm call from Dr.Bell. After acknowledging and announcing alarms, access code must be entered within 10 sec.

Remote control summery

FUNCTION	COMMAND (KEY)
<p>Request</p> <p>Tip !</p>	<p>station no. * register no. # E.g.: 1 * 1 # requests current temperature from station 1</p> <p>Active station/register: stations no. * *# station no. can be programmed and thus a request is easily made by only entering: *register no.# * * register no.# register no. can be programmed and thus a request is easily made by only entering: *station no.#</p>
<p>Remote setting</p>	<p>station no. * register no. * value # E.g.: 1 * 3 * 320 # Changes maximum temperature for station 1 to 32,0°C Note that decimal digit <i>must</i> be entered, since a telephone don't have a decimal point on the keypad.</p> <p>In case a negative value is needed, enter a 0 as the first digit. E.g.: 1 * 22 * 050 # Changes minimum relative temperature for station 1 to -5,0°C</p>
<p>Requesting alarm-status</p>	<p>station no * # E.g.: 1 * # request alarm status from station 1</p>
<p>Requesting the total no. of active alarms</p>	<p>99 * # no. of active alarms followed by alarm cause and station name are announced. Note, alarms that are not acknowledged at this point will be acknowledged! 98 * # same as 99*# except that station number is announced instead of station name.</p>
<p>Historical, alarm browsing</p>	<p>99 * * # Enters historical state ! Dr.Bell responds with "ALARM MEMORY MODE, PRESS #". Enter # to listen to the most recent alarm followed by duration of this alarm. Enter # to move further back in time. * # Restores Dr.Bell to "normal" state. 000 # disconnect connection</p>
<p>Start/stop alarm</p>	<p>station no. * 0 # E.g.: 1 * 0 # Starts alarm supervision for station 1 if it was stopped, or else stops supervision if it was started, hence this command operates as a toggle function.</p> <p>please note, that station no. 100 involves alarm supervision of all 10 inputs + power failure + system alarms. Station 1-10 on the other hand only involves the specific input.</p>

8. Limiting amount of speech

In order to save time when making a lot of requests, announcement of register name and unit can be disabled:

E.g.: "Temperature 24,5 degrees" can thus be abbreviated to just "24,5"

Register name-announcement	*93 1 # enabled *93 * # disabled	default=1 (enabled)
Unit-announcement	*94 1 # enabled *94 * # disabled	default=1 (enabled)

9. Error messages

Message in speaker and telephone call	Meaning
"Missing stations"	A scanning, using the *87 1 # command, must be performed in order to let Dr.Bell know which stations to supervise. <i>Note, this message is only announced if a telephone number has already been entered.</i>
"Station x register y does not answer"	Requesting station/register that don't exist or don't answer. (x * y # has been entered)
"Out of memory, please erase word and try again"	RAM(Random Access Memory) - can't hold any further recordings. At least one recording must be erased before a new one can be recorded. *73 * # deletes word no. 73
"No communication with telephone unit" or "Communication with telephone unit not valid"	Defective hardware or GSM module. Defects may be caused by lacking connection of shield to terminal 16/GND.
"Please, enter 1 2 3 4 on the SIM card"	SIM card PIN code is not 1234
"SIM card is missing"	SIM card is missing or not working
"The SIM card is not active. Please, enter the PUK code and 1 2 3 4 on the SIM card"	Check PUK code and PIN code (Take out the SIM card and put it in another mobile phone)
"Faulty telephone line"	No connection to the GSM network

10. Frequently testing alarm system

Dr.Bell must be tested at a frequently basis and *ALWAYS* after a thunderstorm. To test the system generate an alarm(try different ones) and make sure that both test of siren and telephone functions are carried out.