

## ***User manual***

### Demo Software OEM module 125 kHz

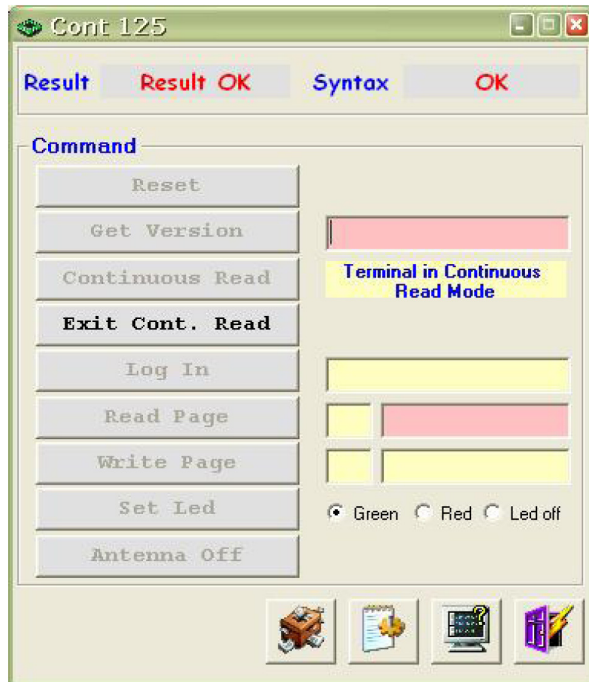
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## I. Installing the program

Before starting the program you have to make sure, that the module is correctly connected to the PC. After insertion of the Demo-Kit CD a new window will be opened automatically. Go to the menu item "Software" on the left side of the window. This page allows you to install the software by simply clicking "Installation". When starting the installation a window will appear and you will be asked to open or save the file. Click open to proceed.

Install the program according to the instructions of the installation software. After successfully completed installation you can start to run the program (Start – Programms – Cont125).



## II. Reading a transponder

Starting the program, the controller is in "Continuous read" mode. Approximating the badge to the module the "scanning" window will show the last 15 read codes. To exit from the "Continuous read" mode you need to press "Exit Cont. Read". After this you are able to use all the buttons of the program. (The reader does not accept any command if it is in continuous read mode)

## III. Description of the command buttons

### Reset:

This command executes a reset of the controller. Pressing this button a reset of the controller and of possible transponders in the reading-zone is caused. After successful reset, following message will appear in the "Scanning" window:

"MULTITAg-125 a.01" and the module enters into the continuous reading mode.

### Get Version:

This command requests the currently implemented firmware from the controller.

Following message will appear:

"MULTITAG-125 a.01"

## Continuous Read:

Following this command, the controller reads and shows continuously the serial number of the transponder that remains in the reading zone. The reader supports different types of tags even if only one type of tag at a time can be read.

In the continuous reading mode the controller effects a fast scanning of all the designated tags and forwards the serial number of the identified tag via serial-line.

## Exit Cont. Read:

This button allows you to exit the continuous reading mode.

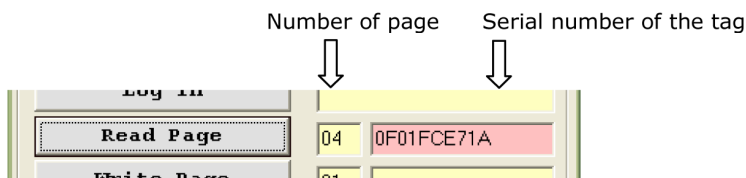
## Log In:

This command is necessary for the authentication for tags of the type EM 4x50 and HITAG 2. For the transponder EM 4x50 the command signification of the Login is the same as described on the datasheet of this transponder: it is necessary to forward the Login-command followed by the Password in order to have access to the protected memory area. For example it is necessary to forward this command in order to execute the scripture of the password onto the transponder of the type EM4X50. Keep in mind that, as described in the respective datasheet, the Password on EM4X50 is the Longword n°00 and that it can not be read but only written if it (the current) is known. For the transponder HITAG2 it is necessary to know the password before any access in reading or writing is possible.

In both cases the login is effected automatically with the default values based on the ultimate identified type of tag.

## Read page:

This command allows the reading of a block of data of a tag (single reading). The dimension of the data returned by an answer depends on the type of tag used. Enter the number of page you would like to read (in hex), approximate the badge and click "Read Page". The valid values of the number of the requested page depend also on the type of tag in use. The reading command of page 00 in case of tags of the type EM 4x02 and ISO FDXB returns the serial number of the tag.



## Write page:

This command allows the writing of a block of data of a tag. After typing in the data, they will be automatically reread in order to verify the correct writing. Not all types of tags support the writting. The controller uses the type of tag, that has recently been read in the continuous reading mode. Enter the number of page and the code you would like to write and consequently press "Write page".

## Set Led:

This command allows the administration of the leds. The user is able to set the state of the led manually by activating the desired state and consequently pressing "Set Led".

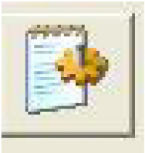
## Antenna off:

This command switches off the antenna power. The controller enters the stand-by mode, the consumption of the controller is reduced. All the tags presented in the area of the antenna are shut off and reset. By pressing "Reset" or "Continuous Read", the module works again in the Continuous reading mode.

## IV. Description of the menu buttons:



SCANNING: open and close the "Scanning" window



SETUP:

Choose the Com Port of your cable connection. Clicking "Serials Research", a list of all the ports, available on the respective PC will appear. "Quit" allows to exit the program. "Save" saves the changes carried out in this window.

Translate code activated the program shows an encode serial number of the read tag (only for EM4x02)



COMMUNICATION MONITOR:

This button opens a new window which shows the transactions carried out by the module and the communication with the PC.



EXIT:

Allows to exit the program.