

ISD-02



SOFTWARE FOR CONFIGURATION OF DIGITAL ENTRY PHONE SYSTEM MADE BY LASKOMEX



|Start page|

- Destination of program
- Hardware requirements
- Kit contents
- Installation of software
- Catalog structure of software
- User interface - GUI
 - "Interface" panel
 - "Memory device" panel
 - "PC" panel
- Keyboard shortcuts
- Description of tabs
- Connection with EC electronic cassette
- Exchange of data using MLX module
 - Internal memory
 - EC - MLX connection
 - MLX - ISD-02 connection
 - DIP memory
- Receiving data from memory
- Restoring default settings
- Import/export data from/to file
 - Export to *.op and *.id file
 - Import from *.op and *.id file
- Copying/pasting data area
- Edition of electronic key
 - Addition of electronic key
 - without assigned to the apartment
 - with assigned to the apartment
 - on the selected item in memory
 - Searching for electronic key assigned to specific apartment
 - Checking for electronic key applied to ISD-02 interface
- Changing electronic cassette operation mode
 - Changing mode from U to H

- Changing mode from H to U - requires support in external panel
- Copying databases of electronic keys from few U electronic cassettes to H one

Destination of program

ISD-02 software is used to configure all the parameters of CD-2502 and CD-3100 entry phone system, and database management of identifiers - electronic keys "iButton" or "RFID" (125kHz standard).

..... [Back](#)

Hardware requirements

- PC equipped with minimum 400MHz processor and 256MB RAM
- CD-ROM drive + 100MB free disk space on hard drive
- minimum screen resolution 800x600
- 1 free USB 1.1 or 2.0 port to connect ISD-02 interface
- mouse or other pointing device
- one of the operating systems: Windows 7, Windows XP or Linux (Ubuntu 9.1 version)

..... [Back](#)

Kit contents

ISD-02 interface	1	pc.
USB-A / USB-B mini cable	1	pc.
Cable to connect with electronic cassette	1	pc.
MLX module	5	pcs.
CD with software	1	pc.

..... [Back](#)

Installation of software

Installation of ISD-02 software does not require specialized installer. One should just copy the appropriate directory to PC's hard drive.

- Depending on the installed operating system in the PC, one should copy from CD to PC's hard drive the

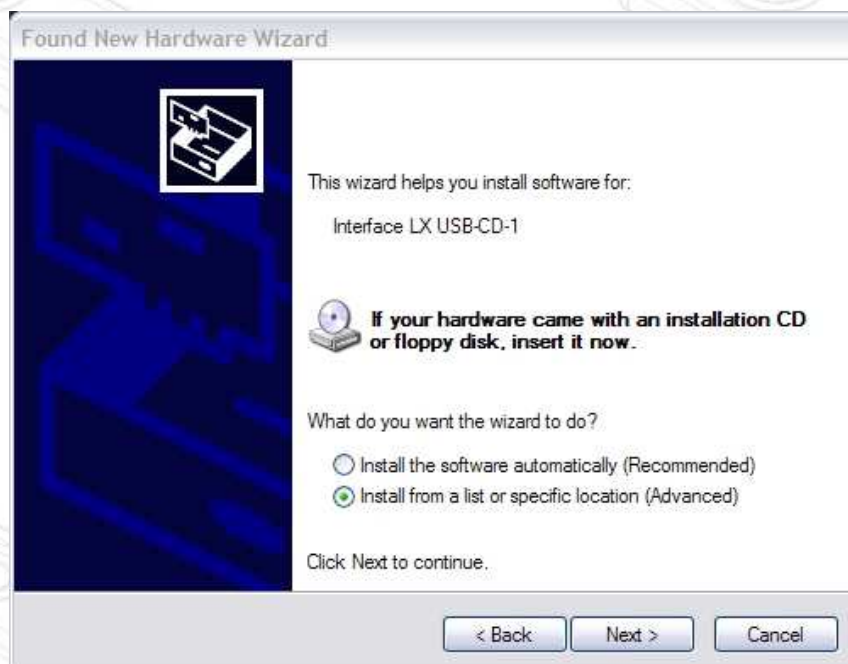
entire contents of the ISD-02 directory:

for Windows operating system	SOFTWARE/WINDOWS/ISD-02/*.*
for LINUX operating system	SOFTWARE/UBUNTU/ISD-02/*.*

- In Linux operating system make sure that after copying to hard drive, files **isd.sh** and **ISD-02** have "**Allow executing file as program**" option selected in tab "Permissions" in "Properties".
- Using supplied USB-A/mini USB-B cable, connect ISD-02 interface to the PC.
- For Linux operating system installation process has come to an end - one should just copy the appropriate directory. The further part of the installation applies only to Windows 7 and Windows XP.
- Windows operating system should detect connection of new device and display the window.

NOTE!

For driver installation, Windows administrator rights are required.



- In displayed window one should select "**Install from a list or specific location**" option and press "**Next**" button



- In next window one should select **"Include this location in the search"** option and by pressing **"Browse"** button, specify the path to the **DRIVER** directory which is present in main ISD-02 directory. After specify the path, press **"Next"** button



- Windows operating system should display **"Hardware Installation"** window where one should press **"Continue Anyway"** button



- After finish driver installation a window should be displayed where one should press "**Finish**" button



- Driver installation was completed successfully. The device has been installed and assigned to the first available COM port (see Device Manager)

..... **Back**

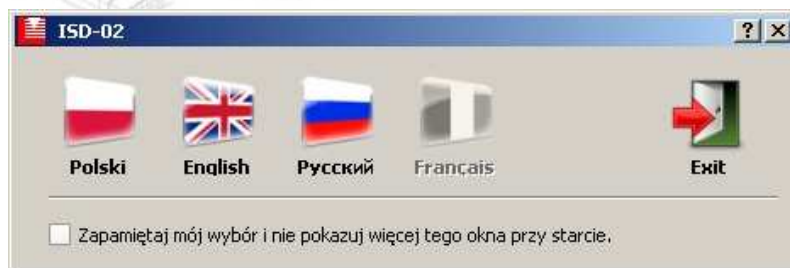
Catalog structure of software

- **ISD-02** - main directory
 - **APPLICATION** - directory with program files
 - **MEDIA** - sound files
 - **PNG** - icons and graphics
 - **XML** - definitions of EC electronic cassettes

- **DATA** - directory with user data
 - **INIT_EC** - directory with standard data from electronic cassettes
 - **SUBDIVISION_A** - example of directory with data from electronic cassettes
 - ... *.bin - files with data from electronic cassettes
 - ... *.bin - files with data from electronic cassettes
 - ... *.op - files with data of coded lock codes database and individually settings
 - ... *.id - files with data of electronic key databases
- **DRIVER** - directory contains driver for ISD-02 interface - only in Windows operating system versions
 - **ISD-02_XPV7.inf** - driver file
- **HELP** - help files
 - **APPLICATION** - application help files
 - **PL** - for Polish language
 - **EN** - for English language
 - ... - other languages
 - **SYSTEM** - help files for EC electronic cassettes
 - **PL** - for Polish language
 - **EC2502_U65** - help file for EC2502_U65 electronic cassette
 - **EC2502_H65** - help file for EC2502_H65 electronic cassette
 - ... - other electronic cassettes
 - **EN** - for English language
 - ... - other languages
- **LIB** - directory contains libraries - only in Linux operating system version
 - **IMAGEFORMATS** - directory contains libraries supporting graphics
 - *.so - libraries
 - *.so - libraries
- **Laskomex_ISD-02.exe** - executable file - only in Windows operating system versions
- *.dll - libraries - only in Windows operating system versions
- **isd.sh** - start-up script - only in Linux operating system version
- **ISD-02** - executable file - only in Linux operating system version

..... **Back**

User interface - GUI



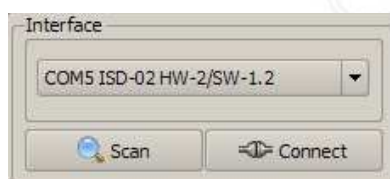
Language selection



The main panel of program

..... Back

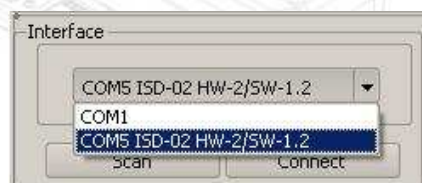
"Interface" panel



Panel is used for finding and selection of serial COM port to which ISD-02 interface is connected to and for making connection with this interface.



Finds an available COM ports



Selection list of device from which the connection is going to be made with



Adequately establish or disconnect a connection to a device that is visible in the selection list.

COM port to which ISD-02 interface is connected to has a following name:
"COMxx ISD-02 HW-h/SW-f.w", where

- **xx** - means COM port number
- **h** - means ISD-02 device version
- **f.w** - means software version of ISD-02 interface

..... Back

"Memory device" panel



Panel where memory type to exchange data can be choose.

CD system configuration by ISD-02 may be carried out in three ways:



direct connection between EC electronic cassette and ISD-02 interface



data exchange using internal memory in MLX module (backup/upload of data - support from panel's keyboard)



read/write from/to DIP memory removed from EC electronic cassette and inserted to MLX module

ISD-02 interface automatically detects the connected type of memory. If a button is **grey** it means, that specified memory is not connected to ISD-02 interface.



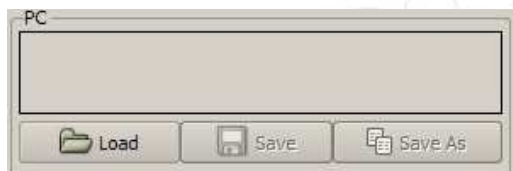
receiving data from the selected memory/device and displays them in program's editor.



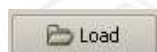
sending actually edited data to the selected memory/device.

[Back](#)

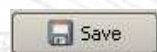
"PC" panel



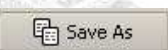
Buttons on this panel allow to save edited parameters to *.bin file on hard drive and load them.



- load data from **"*.bin"** file



- save current configuration to actually opened **"*.bin"** file



- save current configuration to **"*.bin"** file with the possibility of naming it

[Back](#)

Keyboard shortcuts

It is possible to navigate ISD-02 program without using pointing device - by keyboard shortcuts:



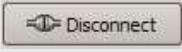



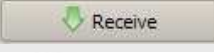

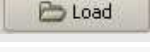
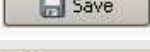
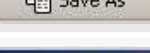


Left ALT+Z

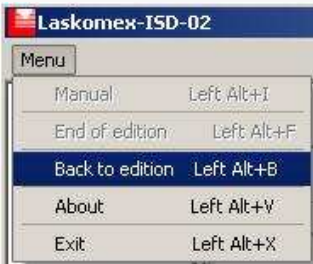
allows in **"Coded lock codes/Flats options"** tab to change the value of parameter for entire column

TAB

forward shift between elements in the whole window

- SHIFT+TAB** backward shift between elements in the whole window
- CTRL+TAB** shift between tabs - does not work in main panel
- TAB+Left ALT** shift between working area and Menu strip
- CTRL+A** selection of all the cells in a table
- CTRL+C** copying the selected data area to the clipboard
- CTRL+V** pasting data from clipboard

	Left ALT+P
 	Left ALT+L
	Left ALT+C
	Left ALT+G
	Left ALT+D
	Left ALT+R
	Left ALT+M
	Left ALT+O
	Left ALT+S
	Left ALT+A
	Left ALT+I
	Left ALT+F

	Left ALT+B
	Left ALT+V
	Left ALT+X

[Back](#)

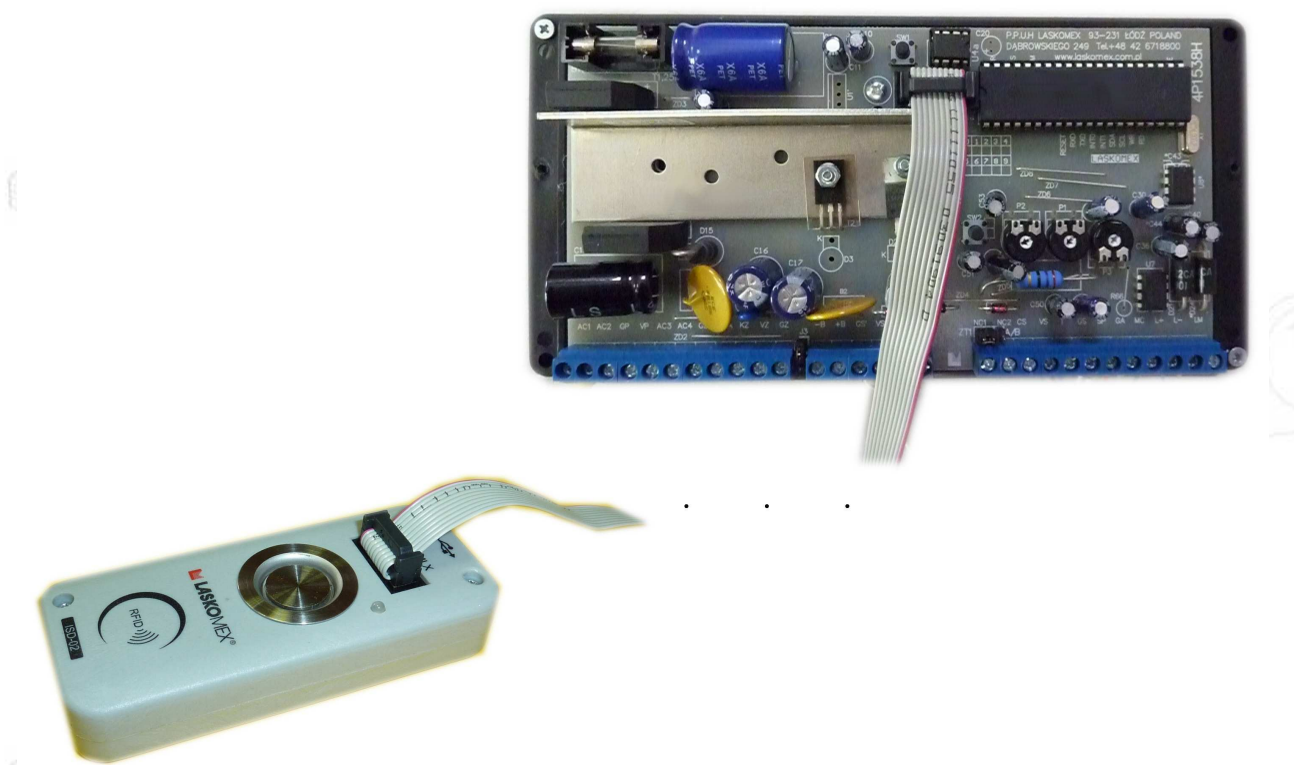
Description of tabs

System parameters – grouped by functionality	Parameters available in electronic cassette in procedures P-1, P-2 and P-6 (change of administrator password), and parameters that identify electronic cassette (serial number, electronic cassette's data type ID, object ID) grouped into function blocks
System parameters – order according to the CD system	Parameters available in electronic cassette in procedures P-1 and P-2 in order such as in electronic cassette
Coded lock codes/Flats options	Individual settings of occupants (P-5 procedure equivalent) and coded lock codes (P-9)
Identifiers - electronic keys	Identifiers - electronic keys database (P-4 procedure equivalent)
Description of parameters - Manual	Description of parameters for actually edited type of electronic cassette and its software version

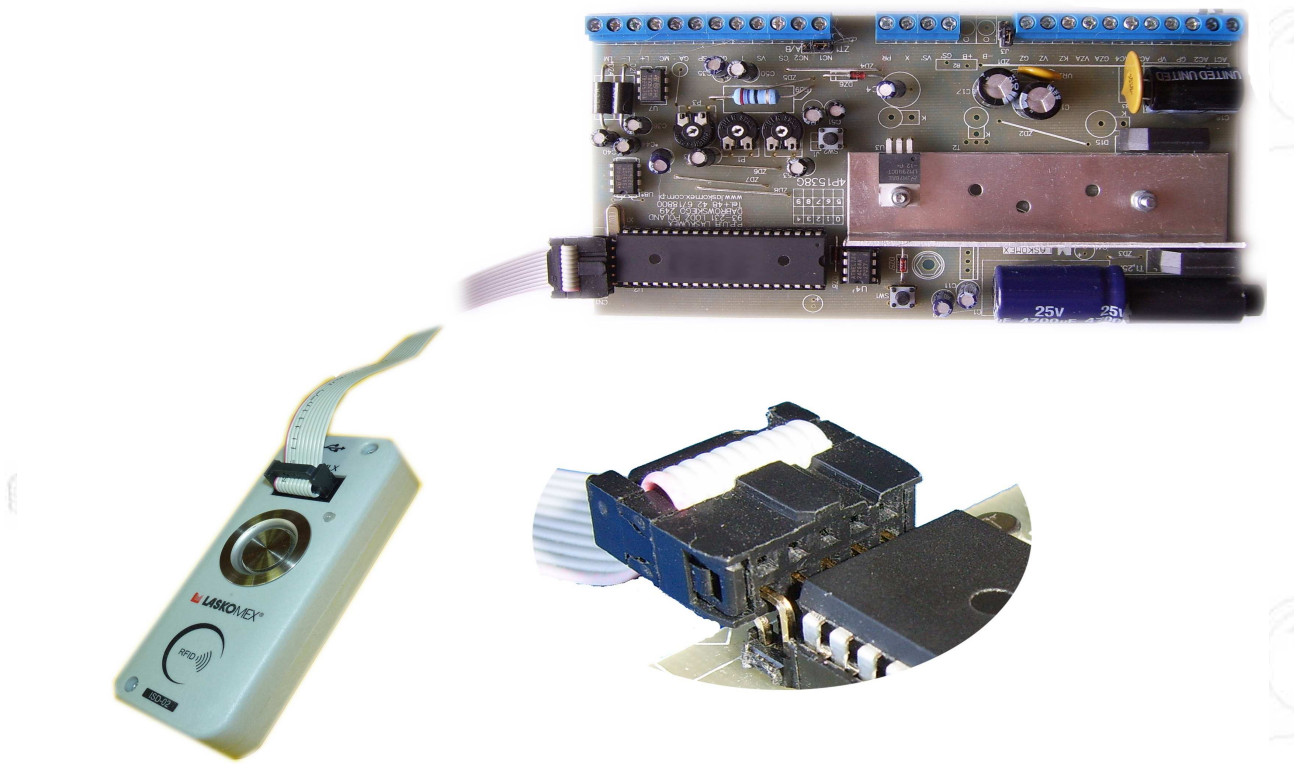
[Back](#)

Connection with EC electronic cassette

Newer type of electronic cassette - the connector is in the middle part of the PCB circuit



Older type of electronic cassette - the connector is on the edge of the PCB circuit



- connect ISD-02 interface with EC electronic cassette using appropriate cable which is included to the kit

NOTE!

In case of an older type of electronic cassette the connection cable should be inserted only on the top row of pins.

Coding inset in the plug should be at the top.

- electronic cassette automatically enters into data exchange mode - on the display of external panel **-PC-** caption will be shown
- direct connection between EC electronic cassette and ISD-02 interface is possible

[Back](#)

Exchange of data using MLX module

[Back](#)

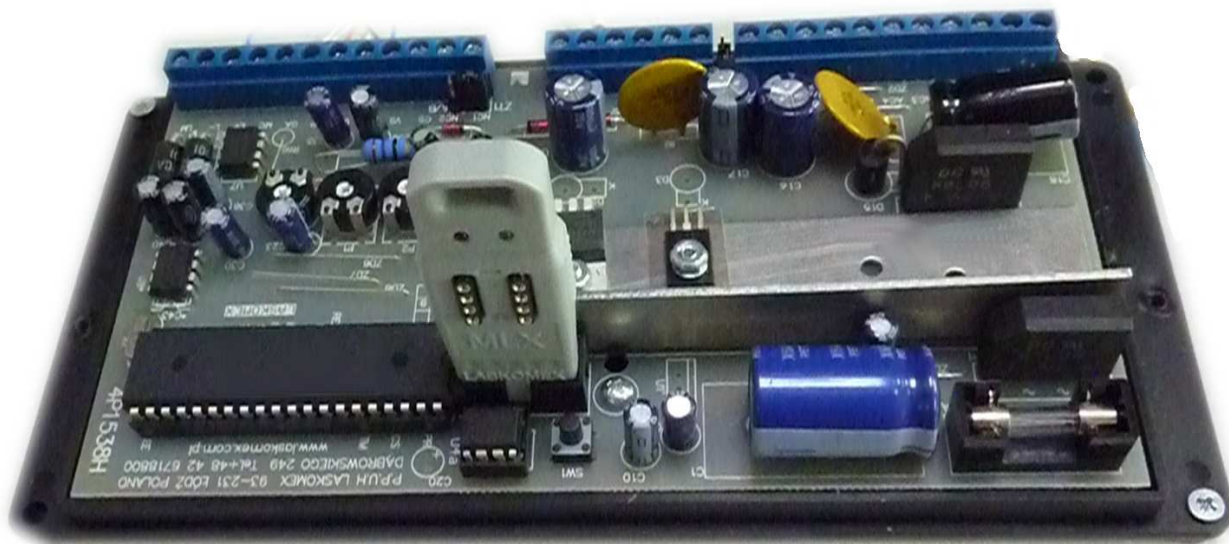
Internal memory

MLX module can be used as a portable memory module. It enables data exchange between electronic cassette and ISD-02 interface.

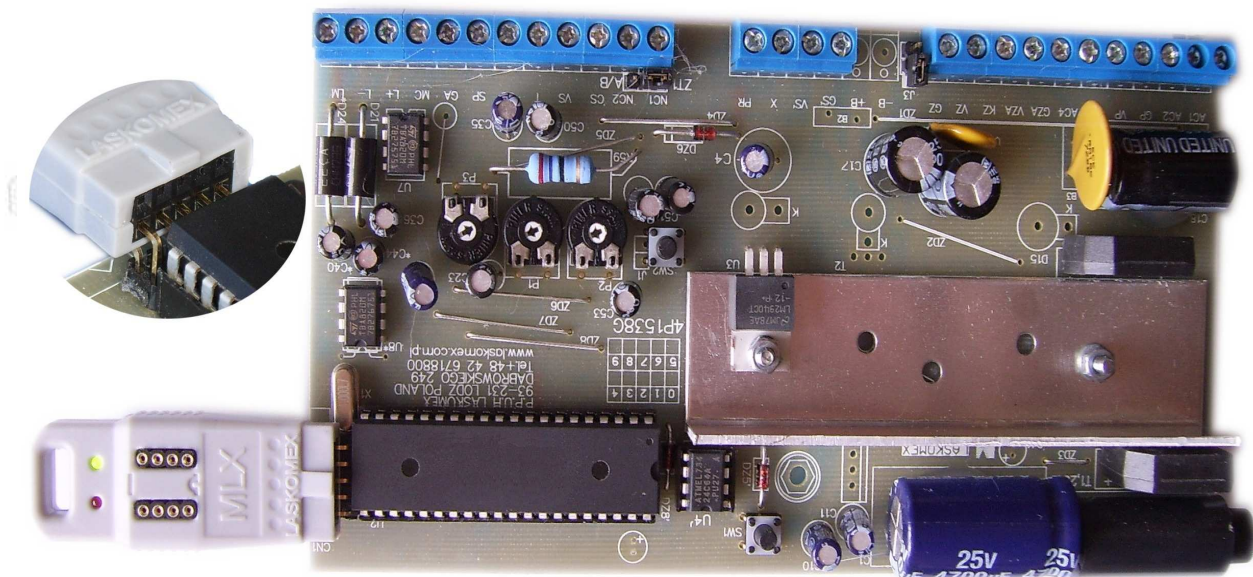
[Back](#)

EC - MLX connection

Newer type of electronic cassette - the connector is in the middle part of the PCB circuit



Older type of electronic cassette - the connector is on the edge of the PCB circuit



- connect MLX module to the socket in EC electronic cassette

NOTE!

In case of an older type of electronic cassette the connection cable should be inserted only on the top row of pins.
Coding inset in the plug should be at the top.

- on the display of external panel **-EE-** caption will be shown
- using keyboard in external panel one should choose appropriate option:
 - **1** - backup data from electronic cassette to internal memory of MLX module - **bUP.**
 - **2** - displays serial number of processor - **ESn.**
 - **3** - upload data from MLX module to electronic cassette - **UPL.**
- after selection the direction of data transfer (backup or upload) there are following options:
 - **1** - copying all the parameters from the electronic cassette including database of identifiers - electronic keys - **ALL.**
 - **3** - copying only database of identifiers - electronic keys - **Id.**
- the selection should be confirmed by touching on keyboard the field with the sign of key - writing or reading data to/from MLX module will began which is indicated by flashing **bUP.** caption or adequately **UPL.**
- after copying the data on the display **-EE-** caption will be shown and short acoustic signal will appear

[Back](#)

MLX - ISD-02 connection

- Connect MLX module to the socket in ISD-02 interface



Back

DIP memory

NOTE!

Applies only to electronic cassette equipped with memory chip in DIP package.

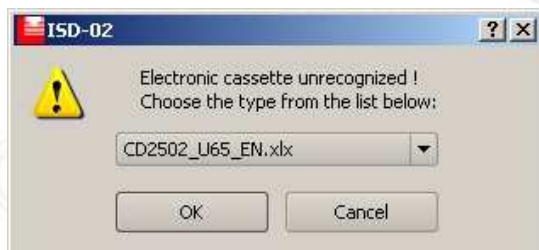
- remove U4 (24C64) memory chip from electronic cassette
- insert memory chip to the socket in MLX module
- connect MLX module to the socket in ISD-02 interface

Back

Receiving data from memory

Since software version 6.7 of EC-2502 electronic cassette in DIP memory is stored a special identifier which identifies the type of entry phone system, software version of processor and operation mode of electronic cassette (U or H). It enables that during receiving data from memory, ISD-02 program identifies itself the kind of electronic cassette from which the data were collected.

In older versions of electronic cassettes those identifier does not exist and during first data receiving the program will ask what the kind of electronic cassette the data come from.



One should choose from the list the appropriate type of electronic cassette.

NOTE!

Selection the type of electronic cassette and further saving the changes to memory will result also in identifier saving so one should be aware of choosing the right type.

NOTE!

Each time of receiving data from memory one should pay a special attention if ISD-02 program identify the type of electronic cassette correctly. In case of faulty reading one should set "**Data type ID**" parameter by itself.

[Back](#)

Restoring default settings



Pressing "**Restore default values**" button will result in restore the default values of parameters only in specific branch.

NOTE!

It is possible to restore the default values **ONLY** for the parameters from P-1 and P-2 procedures. Restore the default values of coded lock codes, individual settings, administrator password, serial number of processor and electronic cassette's data type ID is **IMPOSSIBLE!**

To restore the default values of coded lock codes and administrator password it is necessary to do this from electronic cassette's level.

[Back](#)

Import/export data from/to file

In ISD-02 program it is possible to import/export the following type of data from/to file:

- all the parameters of electronic cassette including electronic keys database - support from "**PC**" panel; files with ***.bin** extension
- only coded lock codes and individual settings - files with ***.op** extension
- only identifiers - electronic keys database - files with ***.id** extension

This easily allows to create a safety backup copies of settings of electronic cassette and restore lost settings in the future if necessary or e.g. by saving the electronic keys databases from few U electronic cassettes, use them in H electronic cassette which facilitate and quicken the configuration process of this electronic cassette.

The files are located by default in **DATA** directory.

An example of default file name is as follow

2502_U65_1234_Dąbrowskiego 249.bin

where:

2502	type of entry phone system CD-2502
U65	operation mode U of electronic cassette, 6.5 software version of processor
1234	serial number stored in memory
Dąbrowskiego 249	the value of "Object ID/Installation address" field

NOTE!

It is recommended to create a safety backup copies in each edition of data!

Files with data saved on PC's hard disk can also be edited using text-editing software.

[Back](#)

Export to *.op and *.id file

- In one of the tabs ("**Coded lock codes/Flats options**" or "**Identifiers - electronic keys**") select the area of rows to be saved.

NOTE!

All the columns must be selected in the row/rows.

To select the entire table use "**Ctrl+A**" key combination or select the title row using mouse.

- right click on selected area or press "**Menu (application)**" key on the keyboard
- choose "**Save to file**" position
- save (press "**Save**" button) under suggested name or type your own one

System parameters - grouped by functionality				System parameters - order according to the CD system			Coded lock codes/Flats options		Identifier
Phy No.	Log No.	Lock code	Melody No.	Volume	Rings No.	Mode	Authorization	Coded lock	
1	100	6839	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
2	200	9309	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
3	300	6425	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
4	400	0656	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
5	500	4482	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
6	600	4598	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
7	700	2543	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
8	800	8380	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
9	900	3547	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
10	1000	2724	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
11	1100	8666	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
12	1200	9478	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
13	1300	7791	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
14	1400	7773	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
15	1500	2329	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	
16	1600	4752	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off	

2	8962	14
3	F95D	15
4	945A	16
5	D51B	17
6	----	----
7	----	----
8	----	----

[Back](#)

Import from *.op and *.id file

- select the cell in a row from which the data imported from file will be pasted
- right click on selected cell or press "**Menu (application)**" key on the keyboard
- choose "**Import from file**" position
- choose appropriate file from the list and press "**Open**" button

NOTE!

Data that is imported from file will be inserted beginning from the row which cell is selected. Current data in the table will be replaced by imported data from file.

Example:

If there were 12 numbers of electronic keys in the file, then while pasting them beginning from position 100, data that was placed on position from 100 to 111 will be removed and replaced with new one.

7	7	2543	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off
8	8	8380			6	[A] - Active	[A] - U + H	[-] - Off
9	9	3547			6	[A] - Active	[A] - U + H	[-] - Off
10	10	2724			6	[A] - Active	[A] - U + H	[-] - Off
11	11	8666			6	[A] - Active	[A] - U + H	[-] - Off
12	12	9478			6	[A] - Active	[A] - U + H	[-] - Off
13	13	7791	0	[G] - Loud	6	[A] - Active	[A] - U + H	[-] - Off

48	----	----
49	----	----
50	----	----
51	----	----
52	----	----
53	----	----
54	----	----

[Back](#)

Copying/pasting data area

In tabs "**Coded lock codes/Flats options**" and "**Identifiers - electronic keys**" there is a possibility to copy an area of data and paste it to another place. This allows to copy individual settings and sort of electronic keys database.

- select the area of data to be copied

NOTE!

*In case of "**Coded lock codes/Flats options**" tab, in selected area should not be present a cell/cells from "**Coded lock**" column. Further pasting of data will result in change of values of those cells for a new one.*

- right click on selected area or press "**Menu (application)**" key on the keyboard
- choose "**Copy**" position
- select the cell in a row from which the copied data will be pasted
- right click on selected cell or press "**Menu (application)**" key on the keyboard
- choose "**Paste**" position

NOTE!

Pasted data will be inserted beginning from the row which cell is selected. Current data in the table will be replaced by imported data from file. Data will be replaced only in the cells from these columns which were previously copied.

Example:

If there were 12 rows in copied area, then while pasting them beginning from position 100, data that was placed on position from 100 to 111 will be removed and replaced with new one.

It can be also used a combination of "**CTRL+C**" and "**CTRL+V**" keys to copy or paste the area of data.

[Back](#)

Edition of electronic key

ISD-02 interface allows to complete edition of identifiers - electronic keys (iButton and RFID) database with possibility of write/read it to/from file with *.id extension. Additionally keys can be easily moved to other positions and transferred from one electronic cassette to another which is useful e.g. during copying keys

registered in few U electronic cassettes to H one.

Write/read to/from file the database of electronic keys - see "**Import/export data from/to file**" item.

Each application of electronic key to the ISD-02 interface results in displaying in fields "**Serial number ID**" and "**Serial number**" appropriate numbers.

In "**Destination of electronic keys - legend**" area are shown colors that match appropriate areas of electronic keys located in window of electronic keys database that are divided by type (destination).

Serial number ID	Serial number
<input type="text"/>	<input type="text"/>

Flat number:

Searched flat number:

Position:

0	12	19	132	182	211	227
---	----	----	-----	-----	-----	-----

[Back](#)

Addition of electronic key

[Back](#)

Addition of electronic key without assigned to the apartment

- press "**Add**" button
- put electronic key/keys against ISD-02 interface
- Electronic keys will be stored on the first available position. Position with added key will be highlighted.

NOTE!

If applied key is already registered, it will be signaled by acoustic signal and by highlight the row where it is registered.

[Back](#)

Addition of electronic key with assigned to the apartment

- enter the number of apartment in "**Flat number**" field, which has to be assigned to the key/keys
- press "**Add to flat**" button
- put electronic key/keys against ISD-02 interface
- Electronic keys will be stored on the first available position. Position with added key will be highlighted.

NOTE!

If applied key is already registered, it will be signaled by acoustic signal and by highlight the row where it is registered.

[Back](#)

Addition of electronic key on the selected item in memory

- choose a cell in "**ID No.**" column in a row where the key is going to be registered
- press "**Add to position**" button
- put electronic key against ISD-02 interface
- Electronic key will be stored on selected position and those position will be highlighted.

NOTE!

If applied key is already registered, it will be signalled by acoustic signal and by highlight the row where it is registered.

[Back](#)

Searching for electronic key assigned to specific apartment

- in "**Searched flat number**" field enter the apartment number which keys assigned to it have to be searched
- press "**Find flat**" button
- if there are no keys assigned to this apartment then "**Position**" field will be grey
- if there are keys assigned to this apartment then positions on which they are registered will be displayed in "**Position**" field
- left click or pressing ENTER on the selected number in "**Position**" field results in selection of cell in "**ID No.**" column on selected position and highlighting the whole row. Edition of selected key is available.

[Back](#)

Checking for electronic key applied to ISD-02 interface

There is a possibility to check if the key is already registered. To do this one should:

- press "**Verify key**" button
- put electronic key/keys against ISD-02 interface
- If applied key is already registered, it will be signalled by acoustic signal and by highlight the row where it is registered.

[Back](#)

Changing electronic cassette operation mode

In ISD-02 program there is possibility to change operation mode of electronic cassette **ONLY** from version U to H one. The operation in the opposite direction is impossible because of safety and confidentiality of coded lock codes.

For the same reason it is not possible to restore the default values of coded lock codes.

[Back](#)

Changing mode from U to H

- remember the values of parameters "**Serial number**" and "**Administrator password**"
- read binary file from **DATA\INIT_EC** directory that corresponds to the electronic cassette and the software version of the same types as the electronic cassette which has to be changed but in H version

NOTE!

*Loaded binary file is equivalent to the default settings of electronic cassette for "**1234**" serial number*

- change the parameters "**Serial number**" and "**Administrator password**" to values previously remembered from U electronic cassette.

In case the parameters "**Serial number**" and "**Administrator password**" have the same values that correspond to the processor serial number from electronic cassette, then such a configuration is equivalent to the situation after initialization (restoring the initial settings) of electronic cassette including erasing the whole database of electronic keys.

[Back](#)

Changing mode from H to U - requires support in external panel

- change the operation mode of electronic cassette from H to U in external panel
- make the initialization (restore the initial settings) of electronic cassette including erasing the whole database of electronic keys
- read the configuration from electronic cassette to the ISD-02 program

[Back](#)

Copying databases of electronic keys from few U electronic cassettes to H one

- in each of U electronic cassette write to *.id files the areas of electronic keys databases in which the keys are registered.

NOTE!

In case of fragmentary saving of electronic keys database it is recommended to save the different types of keys (normal, special and service) in separate files in order to its further easier discrimination and import.

- import in turn previously saved files to H electronic cassette.

NOTE!

Pay attention that special and service keys from U electronic cassettes will be in the appropriate area of electronic keys database in H electronic cassette.

[Back](#)

