EC-13 / EC-14 / EC-15 / EC-16

Control Software for LCD's RS-232 Cebek.

To program 50 messages and to control operating modes.

It allows to create and to display all messages as well as to configure different circuit's operating modes.

It automatically generates documents which can be stored into the hard disk, recuperated or printed, containing program data and configured messages, allowing to generate as different program combination as you wish.

It can send and record the circuit program as well as its read or recuperation from a serial port with a single click.

MINIMUM SYSTEM REQUIREMENTS.

- Pentium II.
- 64 Mb Ram.
- 40 Mb de available space into the hard disk.
- Free Serial Port RS-232.
- Windows 98/2000/Millenium/XP.
- Cebek EC-13, EC-14, EC-15 or EC-16.

INSTRUCTIONS.

Start.

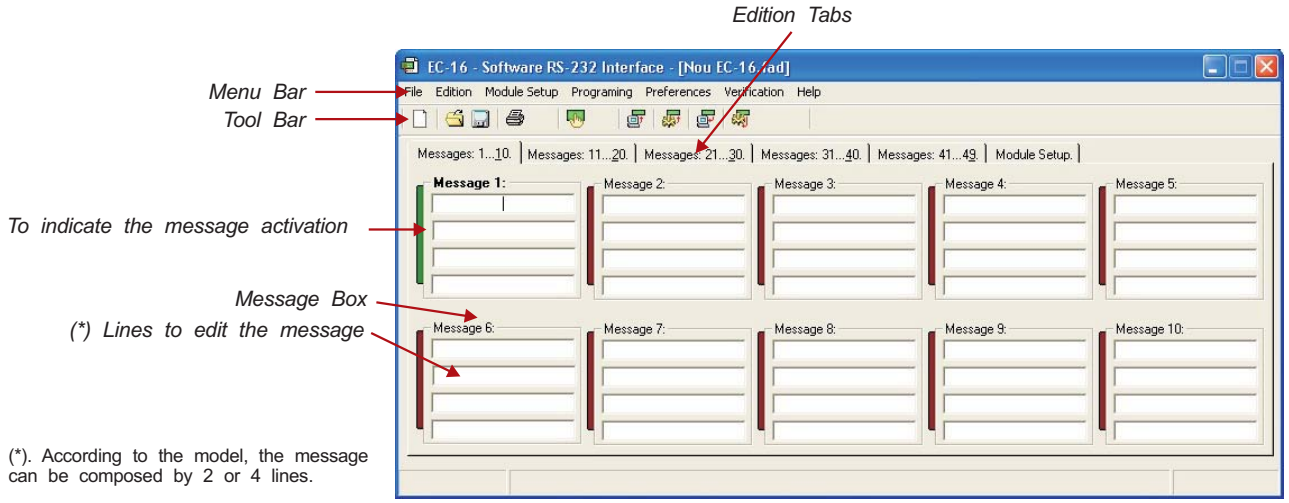
Once the installation done, into the start menu program file you can see the software icon, "LCD-RS232". Double click on it.

If it is the first time you execute the program, firstly you have to select the wished language. Follow the instruction on the screen.

Then, the program will also require the module's reference that you have with the software. Select your circuit among available options: EC-13, EC-14, EC-15 or EC-16. Finally, it will be displayed the program interface.

Selected language and module reference will be stored by default into the internal set up of the software, then for following program executions, these data won't be required.

Program Interface.



(*). According to the model, the message can be composed by 2 or 4 lines.

Messages display and Module configuration.

Each display tab offer 10 messages, organized from the message Nº1 up to 49. The last tab contains the module's set up options and the default message.

According to the module model, messages will be composed by 2 or 4 lines, grouped into a message box. Click on any of these lines, automatically the message indicator will become green to identify the active message and then you can write inside.

The program will centre the edited text and indicate through an acoustic signal and forbidden the writing, when the number of characters is superior to the maximum allowed by the display of the circuit.

Menus Bar.

It is the area which contains pull-down menu options, like File, Edition, Module set up, Program, etc.…

File Menu

The program uses the extension ".fad" to identify documents of this software.

New Document. It closes previous documents and initialise the interface with a new document.

Open Document. It opens the exploration window where you can select the past and the document with ".fad" extension that you which to recuperate in the operating interface.

You can't recuperate documents done with a circuit reference different of the specified in the interface. For instance, if you have previously recorded a document done for the EC-16 and now you are using a EC-15 module, the software doesn't allow it.

Also, the file menu show last used documents. Click on any of them, and automatically the application will recuperate them from the disk.

Save. It records the document into the hard disk, with the name and the path previously selected.

Save as: It open a window where you can select the name and the path of the disk where you wish to store the document.

Print: Show the window with printing options

Exit: It close the application.

Recent documents: The last four inputs in the file menu will show the last used documents. Click on any of them, and automatically the application will recuperate them from the disk.

Menus Bar.

Edition Menu:
Cut: Remove the element displayed into the edited line, copying it on the clipboard.
Copy: It copies the element of the edited line on the clipboard.
Paste: It fill the edited line with the content of the clipboard. (only if it doesn't exceed the maximum character length, and if it isn't a graphic).
Delete actual line: It deletes the content of the edited line
Delete actual message: It deletes the content of the message in the box of the activated message.
Delete several messages: It shows a window of selected messages. Once accepted the selection, the software delete selected messages.
Activate the default message: It activates or deactivates the default message's edition, contained in the module's set up tab.

Module set up.

Relay options. Select the tab module set up, allowing to access to the program of the relay control. (See Module set up paragraph).

Display messages: It allows to commute between a rotary message display and a hierarchical display. (See Module set up paragraph).

Also, the file menu show last used documents. Click on any of them, and automatically the application will recuperate them from the disk.

Program.

Firstly, you have to activate the communication window between the PC and the circuit through the RS-232 port.
Before to execute any option of the set up menu, you have to verify that the circuit is supplied and connected to the serial port,

Send messages to lcd. It transmits only the 50 messages present into the software to the circuit memory, without the operating set up.

Send Module Set up. It only transmits to the circuit memory, the module set up specified in the application, without sending messages.

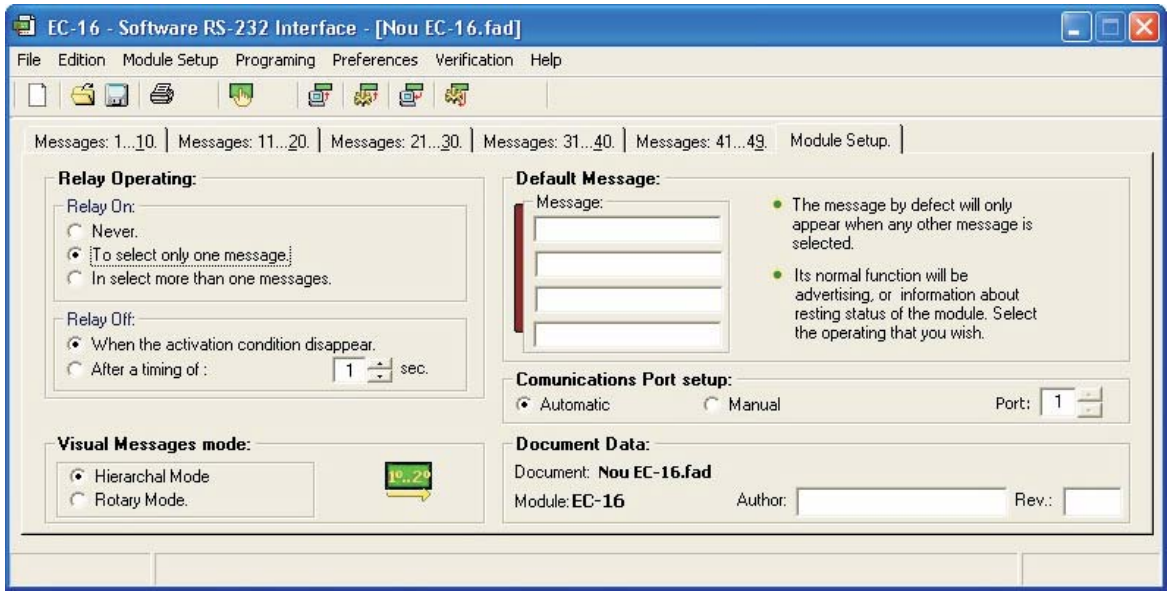
Get messages from lcd. It reads the circuit memory and it obtains stored messages, filling the corresponding software inputs.

Get module Set up. It obtains from the circuit memory its operating set up, showing it in the corresponding software's interface.

Delete Memory Module. It deletes all messages and operating set up stored into the circuit memory.
Note. The messages transmission or set up imply the delete of corresponding data because they are substituted by the transmission one.

Help.
In order to display help manuals, you have to previously install in your computer Adobe Acrobat Reader 5.0 or superior.
Software manual. It displays on the screen the instruction manual of this program.
Module manual. It displays on the screen the instruction and assembly manual of the module.

Module Configuration.



Config Module Tab

Relay operating mode.

Relay activation. It allows to select the relay's activation mode among three possibilities, depending on the messages' external activation.

Never. The relay will always remain disconnected.
When you select only a message the relay will only be activated when in the messages' external activation there is a single selected message.
When you select several messages at the same time. In this case, the relay will only be activated when there is more than one message selected at the same time.

Relay Deactivation. Once the relay activation is done, this one will remain activated till the deactivation mode is selected; the selection is done among following options:

Once the relay activation disappear. The relay will be stopped when the programmed activation condition is not present

After a timing of. The relay, after the connection and independently of the condition type, will be stopped after a timing indicated in the time window. The timing can be selected between 1 and 60 seconds.

Messages Display
Using this function, you can select the wished display mode for messages: Rotary mode or Hierarchical mode.

Rotary mode. When you select at the same time several messages, the module will display all message on the screen, editing one by one with an interval between each message, which can be selected through the dip switch placed on the circuit (see the module instruction manual)
Hierarchical mode. When you select at the same time several messages, the module always display the higher one, where the message Nº1 will correspond to the higher value or hierarchical scale and the message Nº49 correspond to the lower value.

Default message. The content of this message will be displayed when there is no selected message.

To configure the communication port. It allows to manually select the serial port where the circuit connection has been done Nevertheless, we suggest you to maintain the automatic option.

Program information. It collects data relating to the actual document, and it stores them with the rest of document's data.