

easySoft V7.10



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Original Release Notes

is the German-language edition of this document

Translation of the original Release Notes

All versions of this document that are not in German are translations of the original Release Notes.

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1 easySoft 7

1.1 System requirements

1 easySoft 7

1.1 System requirements

Hardware

- Recommended minimum resolution of 1280 x 1024 pixels
- Min. 250 MB of free space on the hard drive

Software

PC with administrator privileges and one of the following operating systems:

- Windows 7 (32 + 64 Bit) >= SP1,
- Windows 8/8.1 (32 + 64 Bit) or
- Windows 10 (32 + 64 Bit)

1.2 easySoft 7 programming software license

Please note that easyE4 devices can only be programmed with easySoft 7.

The easySoft 7 programming software is available for free. However, you will need to buy a software license in order to be able to use all of the software's functions.

- Online function
You will not be able to load any programs onto a connected device (no online function).
- Card manager
There will not be any card manager functions available for the microSD memory card
- Download the full version of the easySoft 7 program from the Software Download Center.
<http://www.eaton.eu/software>
- You can order an programming software license through your supplier or through the EATON online catalog EASYSOFT-SWLIC, article no. 197226.
<http://www.eaton.eu/ecat>

You will receive a license product certificate containing a 36-digit certificate number.

- Open the following website:
http://www.automation4you.net/licmgr/license_en.htm
- Now enter the 36-digit certificate number from your license product certificate.
- A dialog box will appear. For your own security, enter the license owner information into this dialog box.

Once you enter all your information, a 24-digit license key will be sent to the e-mail address you provided.

The e-mail will contain the following information:

- License type:SW-EASYSOFT
- License product certificate number: 7-digit number for your certificate
- License key: Automatically generated 24-digit code
- Information regarding the owner's registration
- During the easySoft 7 installation process, enter the 24-digit license key.

1.3 Adding a license later on

If you installed the demo version of easySoft 7, you can add a valid license key later on in order to unlock the full version. How to get the license key is described in chapter 1.2 easySoft 7 programming software license.

- Go to easySoft7 the ? menu and click on License.
- A dialog box for entering the license key will appear.
- Now enter the 24-digit license key that you received by e-mail.
- Click on Check license.
- Once the check is completed successfully, close the dialog box by clicking on OK. All program functions that require a license will now be unlocked.

1.4 Legal disclaimer

All the information in this release notes has been prepared to the best of our knowledge and in accordance with the state of the art. However, this does not exclude the possibility of there being errors or inaccuracies. We assume no liability for the correctness and completeness of this information. In particular, this information does not guarantee any particular properties.

It is assumed that the user of this manual is thoroughly familiar with the information found in the manuals for incorporating the control relay into automation processes. Hazards posed by the control relay cannot be ruled out if the safety instructions are not observed – especially if the control relay is installed and commissioned by inadequately qualified personnel or if it is used improperly. Eaton assumes no liability for any damages resulting from cases such as these.

1.5 easySoft V7.10 version changes

1.5.1 New Functions

- Support for new firmware version V1.10
- Web server TLS encryption
- Ability to define user-defined device locations with geodata sets

Support for the following new devices

- EASY-E4-AC-12RC1
- EASY-E4-AC-12RCX1
- EASY-E4-AC-16RE1
- EASY-E4-AC-8RE1
- EASY-E4-DC-4PE1

New function blocks

- AC – Astronomical clock
- AV – Average Calculation
- PM – Performance Map
- RE – Recipe – Data Sets

1.5.2 Important modifications

1.5.2.1 Project View:

E70 files can no longer be opened several times simultaneously from Windows Explorer. (#16885)

The dialog box language can now be changed while a project is open. (#16894)

Starting with this version, e-mail passwords must consist exclusively of ASCII characters. (#17396)

It is no longer possible to assign identical names to multiple users when configuring the web server. (#17497)

Printouts and page previews for NET projects now show bus delay values in a station-specific manner. (#17585)

Printouts now show the parameters for all GT function blocks being used. (#17616)

Using the Enter key no longer prevents dragging devices and dropping them onto the work pane subsequently. (#17614)

It is now also possible to enter, on the device, time zone values for which there is no official time zone definition and edit them in easySoft 7. (#17614)

It is now possible to enable e-mail system notifications even if the corresponding program has been read from a device. (#17956)

1.5.2.2 Programming view:


General:

Negative constants can no longer be connected to timer inputs. (#17442)

The cross-reference list now remains open if the view changes when navigating in the cross-reference list. (#17499)

Before the dialog box used to select a programming language appears, the cross-reference list view is now closed. (#17673)

UF user function blocks can now be stored with a different name without a problem. (#17793)

The symbol for the "Flashing" timer operating mode has been changed to  in order to make it easier to read. (#17872)

Now, after a UF user function block is deleted, the function block's parameters are maintained. (#17969)

When generating a user function block, the programming language for the main program is now preset in the *Create user function block* dialog box. (#16644)

Clicking on the *Copy from program* button in the *Configure user function block* for a user function block now delivers the correct values for the interface. (#17998)

Text display editor:

The status display is now updated when the text display editor is open. (#16993)

It is now possible to change the dialog box language while the text editor is open. (#17451)

When the name for a language is changed in the Languages tab, pressing the Enter key applies the change now. (#17460)

If a new language is created in the Languages tab by entering a name in the line at the bottom end of the language table, the drop-down box in the *Download* column is now filled out correctly. (#17461)

The validity check now reports when the text display is unable to fully show the configured value range in a value entry or value display element. (#17579)

Text display language changes can now be controlled with the input or output of a user function block as a logic gate variable. (#17881)

EDP programming:

The validity check now reports the invalid use of network markers. (#17026, #17079)

The programming view can now be opened without a problem after changing the active NET station. (#17487)

The original zoom setting is now generated again after closing the print preview. (#17673)

All the operands used are now shown in the cross-reference list. (#17826)

After deleting an AR arithmetic function block in the function block diagram, all access references in the circuit diagram are now deleted as well. (#17825)

1 easySoft 7

1.5 easySoft V7.10 version changes

The position of sticky notes when copying and pasting rungs is now retained. (#17917)

FBD and LD programming:

Whether networks are expanded or collapsed is now saved in the E70 file, and they are displayed accordingly when the file is loaded again. (#16792)

ST programming:

The validity check now detects impermissible divisions or modulo operations with a constant divisor of 0 (#17922).

When the number for a function block call is changed in the ST source text, the original function block parameters are now assigned to the new instance. (#17999)

1.5.2.3 Simulation View:

The "mod 0" error situation is now taken into account when executing a program. Diagnostic message ID12 is set the same as for "Division by 0." (#17939)

1.5.2.4 Communication View:

For "Division by 0" and "mod 0," the values returned by the device are now shown in the ST status column. (#17922)

When transferring a program (Device=>PC, Card=>PC), it is now ensured that devices already in the project will be completely reinitialized before the contents are copied from the device. This applies above all to the Modbus, E-mail, and Webserver system settings. (#17962)

The part numbers for the devices found are now always displayed correctly in the "Search for devices" dialog box. (#17964)

1.5.2.5 Project migration:

At the end of a conversion for an E60 project, a dialog box for saving the converted project as an E70 file now appears. (#17448)

When migrating E60 projects that contain EASY-406-DC-ME/411-DC-ME- and AC expansions, they are automatically migrated to easyE4 base devices with firmware version V1.10 and higher. (#17747)

1.6 easySoft V7.01 version changes

1.6.1 Project View:

The validity check no longer allows addresses in the multicast range.

Saving empty projects is no longer possible.

1.6.2 Programming view:

General:

After uploading a program, the set colors are displayed correctly in the text display.

The software now checks to make sure that the text display editor is always displayed on an active monitor.

Windows text display sizes no longer affect the position of the text display element.

The instance number of a text function block can now be changed without errors in the parameter configuration dialog box for the text function block.

GT function blocks incorrectly configured with an invalid NET-ID are now detected by the plausibility check.

EDP programming:

User function blocks can no longer be called via the menu bar.

Function blocks that have not been configured and that are not used in the circuit diagram are no longer deleted automatically.

The LB function block is no longer deleted automatically.

Time constants are only offered for timing relays.

The bug causing function block optimization to malfunction has been fixed.

FBD and LD programming:

The state of the notes is now rebuilt when the project is opened.

The plausibility check now catches negative time values.

Upstream circuits connected to function blocks can be cut at all inputs.

ST programming:

The autocomplete drop-down menu is now closed when the user completes the selection with a mouse click.

Autocomplete is now displayed better when the user is in the line at the bottom edge of the screen.

The cross-reference list is no longer closed automatically when the user navigates within it.

When the cursor hovers over a function block, a tool tip will be displayed regardless of case.

1.6.3 Simulation View:

Simulations with more than 512 networks in LD/FBD programming now work properly.

1.6.4 Communication View:

At the mapping assignment points, the status display now takes into account the limited value ranges of byte and word operands.

When switching between the oscilloscope view and the status display, the values no longer freeze.

1.6.5 Project migration:

A save prompt is now shown for migrated projects closed without changes.

The output log has been improved for the migration of projects with easyNET remote IO stations.

1.7 easySoft V7.00 version changes

1.7.1 New programming languages:

easySoft 7 supports now the programming languages Ladder Diagram (LD), Function Block Diagram (FBD) and Structured Text (ST) and also the easy circuit diagram and block diagram (EDP) known from easySoft 6.

1.7.2 New function blocks:

The following function blocks have now been added from the FBs familiar from easySoft 6:

- RC – Realtime Clock
- MM – Min-/Max function
- WT – Weekly timer (new)
- YT – Year time switch (new)
- DL – Data logger
- D – Text display (New)
- AL – Alarm function block (for sending e-mails)
- TC – Three step controller
- IC – Counter-controlled interrupt function block
- IE – Edge-controlled interrupt
- IT – Time-controlled interrupt

In addition, user function blocks (UF) can be defined.

1.7.3 Changes to existing function blocks:

All FBs that did not yet have EN except for the "T - Timing relays" have received an additional enable input (EN).

All FBs except for the "T - Timing relays" have expanded by a new parameter for EN - Evaluation (ENC).

The FBs "BT - Block Transfer", "CF - Frequency Counter", "DB - Data Block", "PT - Put value on the NET" have one or two more additional parameters obtained.

The FB "OT - Operating hour meter" has received additional inputs and outputs.

The FB's "DC - PID controller", "FT - PT1-Signal smoothing filter" have received additional outputs.

Modified file format (*.e70):

easySoft 7 only supports devices of the **easyE4** family. Devices of the families easy400/500/600/700/800 and MFD-Titan are no longer supported by easySoft 7.

easy500/700/800 projects with the extension *.e60 created with older versions of easySoft can be opened with version 7 or later. The easy circuit diagram will be converted into a contact plan or EDP view and can be further processed then. *.e60 projects with circuit diagrams for easy400/600 and MFD-Titan, plus *.eas- and *.e40-Projekte are not be opened. Converted projects that have been saved with Version 7, can not be opened with older versions of easySoft!

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