Quick start guide

For PLC logic
and LOGIC+ programming software

1 LOGIC+ software installation

1.1. Download the LOGIC+ software from phoenixcontact.com.

1.2. After downloading the software, run the installation file by double-clicking on it. Follow the installation instructions.

1.3. Following successful installation, connect the logic module to your computer via a USB cable and supply it with a voltage of 24 V. The hardware driver is installed automatically. If you do not want to connect the hardware yet, please proceed directly with program creation (3).

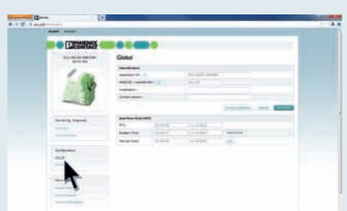
2 Device configuration using web server

2.1. Open the page “v8c_usb” in a standard web browser. This takes you to the start page of the integrated web server.

2.2. Click on “Login” and log in with the user name “admin” and the password “admin”.

2.3. Click on “Access control” in the menu

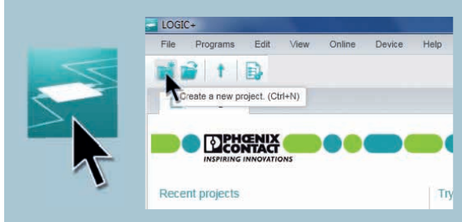
2.4. Assign a new password and click on “Save”.



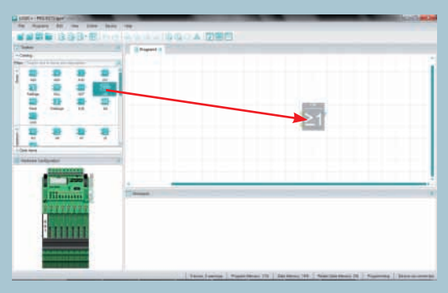
2.5. Click on “General” in the menu.

2.6. You can synchronize the time of the realtime clock with the system time of the connected computer. To do this, click on “synchronize” next to the displayed system time.

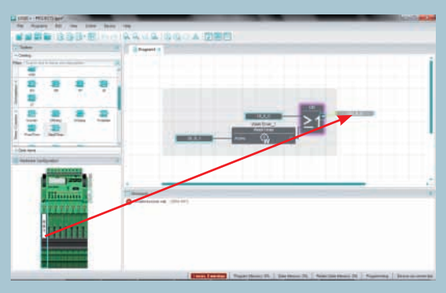
3 Creating the program Example: timer and demand switch



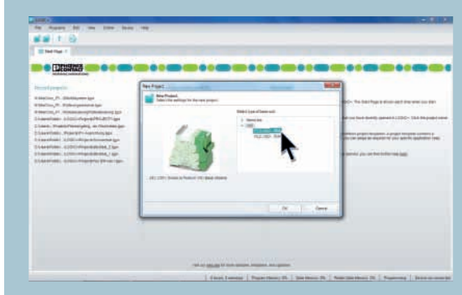
3.1. Start LOGIC+ and create a new project.



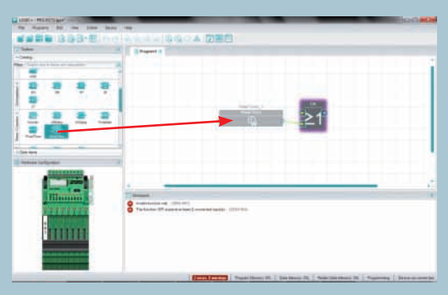
3.5. Now insert the logic module for logical OR into the logic plan by means of drag & drop.



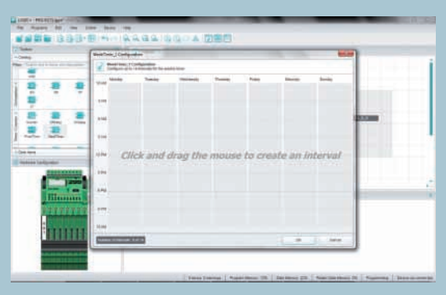
3.9. Insert the output you configured by means of drag & drop and connect it to the output of the OR block.



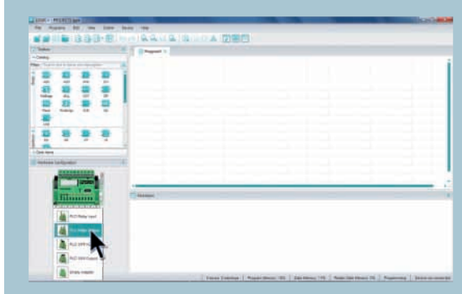
3.2. Select “PLC-V8C/…/BM” in the hardware selection dialog box.



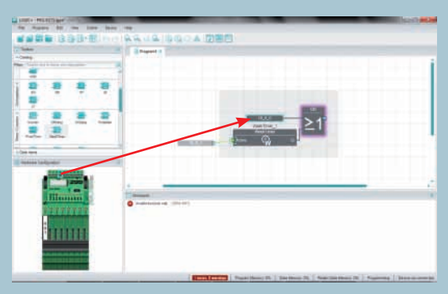
3.6. Insert the week timer. Move it towards the OR block. If connection is possible, this is indicated by a green connecting line.



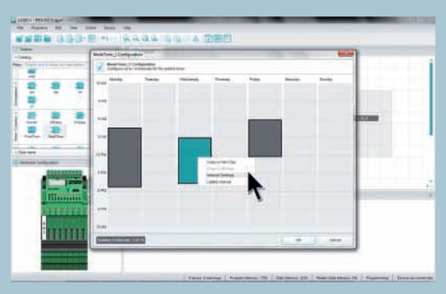
3.10. By double-clicking on the week timer, you can set up to 14 time intervals that are directly related to the realtime clock.



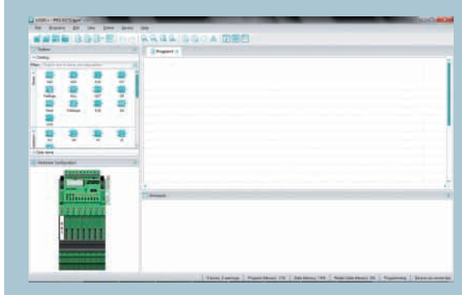
3.3. Click on the area indicated in the hardware area and select the relay output.



3.7. Insert input DI_0_0 by means of drag & drop and connect it to the OR block. Connect input DI_0_1 to the week timer.

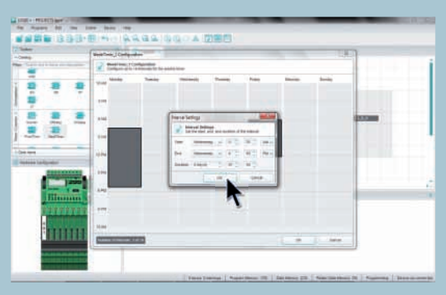


3.11. You also have the option of setting more exact intervals by configuring the interval start and duration.



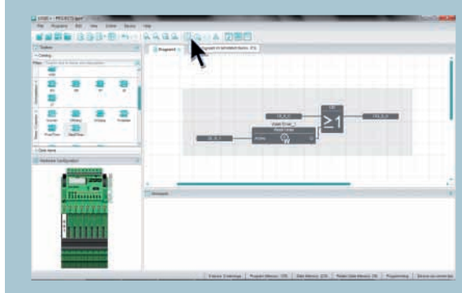
3.4. Fill the remaining places with dummy modules.

3.8. You can individually mark all inputs and outputs by double-clicking on them.

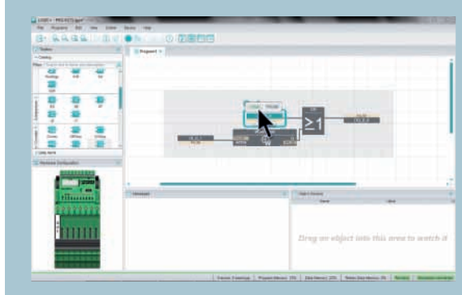


3.12. To carry out a simulation, select a suitable time interval.

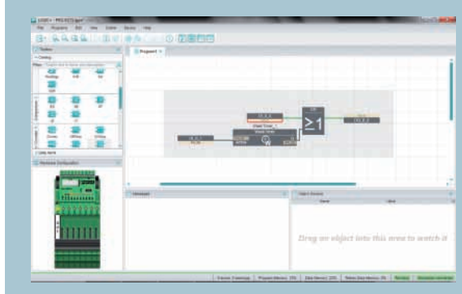
4 Simulation



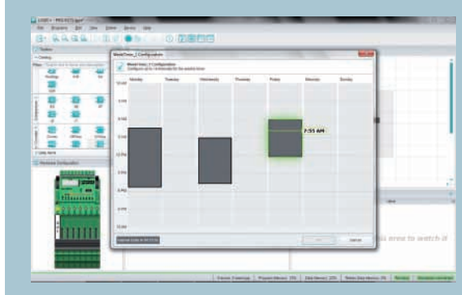
4.1. To start the simulation, click on the “Run program on simulated device” icon in the menu bar or press F5.



4.2. To set or reset an input, double-click on it and select “TRUE” or “FALSE”. You can make this selection in both the hardware configurator and the program editor.



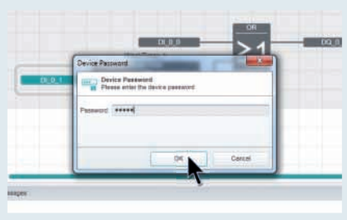
4.3. The current switching states are displayed in the program or on the illustrated hardware. This means that you can easily track all changes.



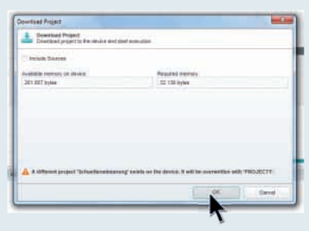
4.4. Double-clicking on the week timer opens a dialog box where the set intervals and current time are displayed.

5 Loading the program on the logic module

5.1. Load the current project on the logic module by clicking on “Run program on the device” in the toolbar.



5.2. Once a connection has been established to the logic module, a password is requested. Enter the password set in step 2.4. here.



5.3. Confirm the dialog box with OK.

6 IFS-CONFSTICK (memory) handling

6.1. Writing the device configuration and program to the IFS-CONFSTICK

- Press CONFIRM button on the logic module
- The memory stick must be inserted within 4 seconds
- The copying of the configuration and program is started. The DAT LED flashes while saving.
- The DAT LED goes out when backup is completed
- The memory stick can be removed

6.2. Running the device configuration and program on the logic module

- Insert the memory stick in the logic module
- The configuration/program is checked automatically
- If another configuration/program is detected on the device, the DAT and ERR LEDs flash alternately
- The CONFIRM button must be pressed within 6 seconds
- The next time the supply voltage is switched on, the new configuration and the new program will be valid

Important note!

The programming environment of the software is illustrated here with the aid of a program example (timer and demand switch). This documentation is intended to assist the user, however the user is still responsible for checking the respective programming, in particular with regard to its suitability in specific applications. It is the responsibility of the user to conduct a risk and functional analysis of the relevant program logic in relation to current standards and to assess the validity of these for the user's activities. The analysis should extend to the system in which the logic modules are to be used and should in particular incorporate a process of overall validation as well as regression testing. The program examples included in the software are solely for explanation purposes and do not claim to be complete. They must therefore not be generalized or used without being checked. Please observe the notes provided in the package slip for the logic module and in the software, especially any safety notes and installation instructions.

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