



Programming SIEMENS SIMATIC S7-200 PLCs using Step7-Micro/Win software

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There is a quotation which was originally stated by Confucius, I would like to present it here as a very practical statement on how the human mind approaches the learning process:

I hear, and I forget

I see, and I remember

I do, and I understand --- Confucius

All this means is the best way to understand anything is to get your hands on it and actually experiment with it. In PLC programming this means writing many small programs and using some kind of simulator software to test programs' functionality. This E-book provides both fundamental and cutting-edge coverage on PLCs. It explains most basic to intermediate and advance instructions through many worked-out examples and explanation of the solutions. Since this is a self-teach manual, it is assumed that reader may not have any access to a PLC or instructor, to discuss any problems. Based on this assumption, the reader is familiarized with S7-200 Micro/Win software (developed by Siemens Automation) to show the reader how the software could be used to edit, run and finally how to debug a program in hand. So, this is not just another programming book in PLCs. You can download two simulator software used in this E-book free from internet. You can use them to familiarized yourself with how to use simulate the developed S7-200 control program or simulate an HMI device. Good thing with Micro/Win software is that it does not require any PLC connected to PC to test the software. As soon as it is run, lets the user to edit a program and save it. By the said simulator, you can test the logic of the program and actually see how input and output devices interact and how the whole program is functioning. HMI simulator allows you to edit a program and even test it offline from any PLC connected to the HMI device. At the end, there are 25 complementary projects with worked out solutions (ladder logic programs) which is the best way for you to test your programming knowledge vs the solutions presented in the E-book. Lots of examples are presented to show you how an instruction is used in practice. So this is the book that teaches you how to program Siemens Simatic S7-200 families of PLCs with fun.

List of 25 ladder logic project programs with solutions presented in the E-book:

- 1- Stop Traffic Light project: 2- Conveyor project: 3- Mach table project
- 4- Set and reset of a contactor project
- 5-Control of a machinery system to turn on a motor continuously or stop project
- 6- Starting a three phase motor in STAR or DELTA connection
- 7-Re-doing previous problem with a timer
- 8-Conveyor project with funnel-shaped container
- 9- Motion of conveyor controlled by a motor and two sensors
- 10-10- Motion of two conveyors controlled by two motors and sensors
- 11- Controlling motion of two conveyors with diverter gate and rejecter
- 12-Project to control function of a paint mixer
- 13- Project to control function of a mixer with input and output valves
- 14- Project to control an automatic STAR/DELTA forward and reverse 3 phase motor automatically with overload protection devices
- 15- Redo project # 14 for a manual case
- 16- Project to control lights in a long passageway

- 17- Project to control a liquid chemical mixer with 3 pumps and drain valve
- 18-Project to control a lamp from different locations
- 19- Control of a three phase motor CW and CCW with defined conditions
- 20- Write a control program to turn a lamp on and off each for duration of 2 seconds What is a wounded-rotor motor
- 21- Project related to a wound-rotor motor
- 22- Project to start two electro motors at certain pre defined times
- 23- Re-doing previous project with defined different conditions
- 24- Developing a control program to turn on output after elapse of two months, 10 days and 5 hours
- 25- Writing a control program for S7-200 to function as

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