Doc for project of Automatic Wash Machine

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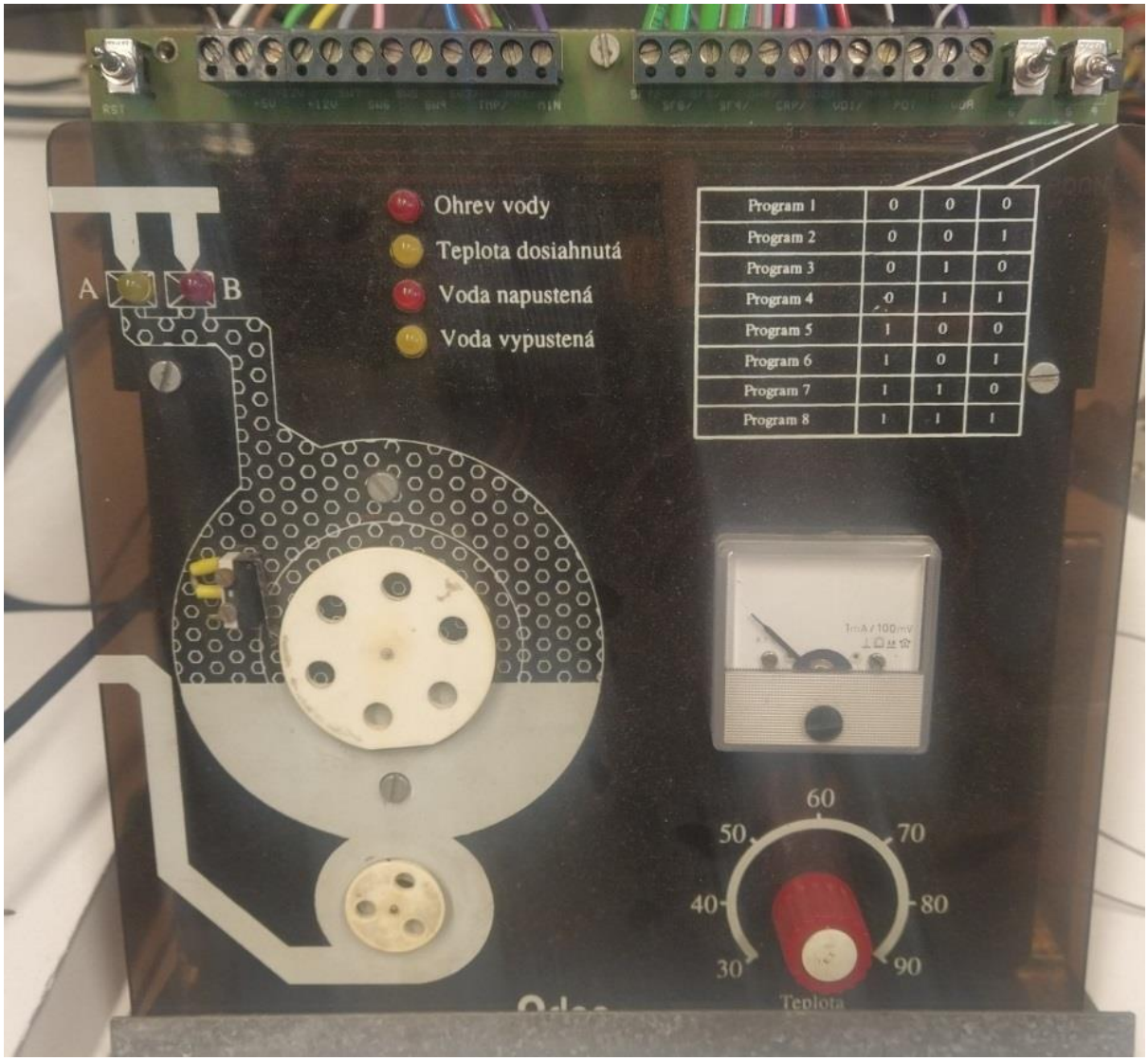
Job

Create a program for a model of Wash Machine on a SLC (PLC) from Allen Bradley Rockwell Automation. This Model is shown on Fig. 1

Figure 1

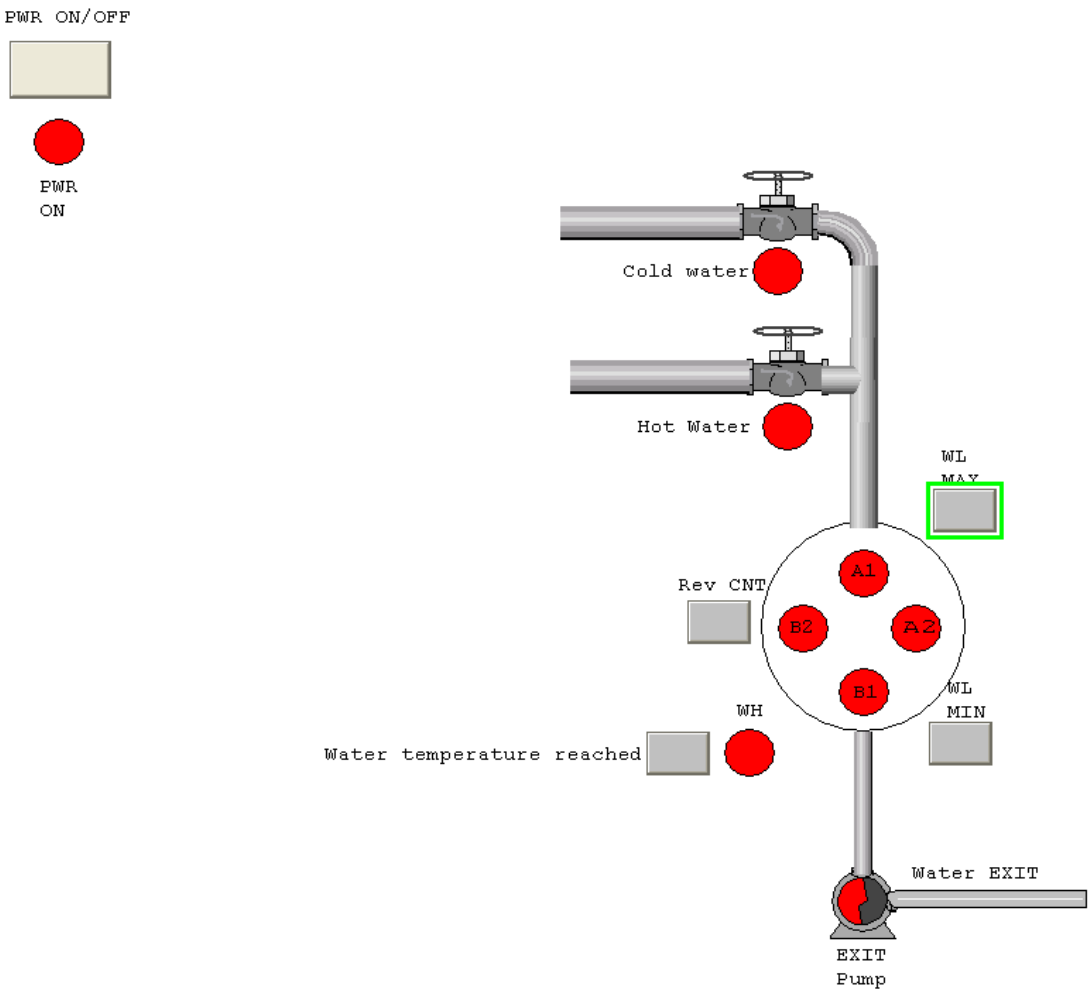


Program description

1. When the model is powered on by PWR switch SW7 the water valve A or water valve B will be opened until the max water level is reached. When the maximum level of water is reached the water valve A or B is closed and heating of water in the drum is started. Until the target temperature is reached for first time during the washing cycle.
2. Afterwards the washing processed is started. The drum rotates slowly for 1 minute with period 4 turns Right, 4 turns left.
3. When the processed is finished the pump for water extraction is started until the water sensor at minimum level is triggered afterwards the water extraction is started by spinning the drum at high speed for 20 seconds. The program ends.
4. For a start of a new cycle is necessary to turn off and on model again.

Pictures

Figure 2 Visualization for simulation environment created in RSView 32 works



The other documentation including all resource files is available here:
https://github.com/SamuelPulpan/WashMachine