

## Control System of Polyurethane Pre-Polymer Synthesis Reactor Using Programmable Logic Controller

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**Keywords:** automation; CoDeSys; Ladder Diagram; logic control system; prepolymer synthesis; programmable logic controllers.

**Abstract:** The paper deals with the reactor control using up-to-date industrial automation tools. The schematic diagram of synthesis and automation scheme of reactor is presented and its verbal description is given. Based on the resulting scheme, the operating program was developed in the Ladder Diagram (LD) language using the CoDeSys software. This program implements the algorithm of polyurethane prepolymer synthesis. The visual description of this process is given.

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