

Research Study Title	Programmable Logic Controller Kit for Test Devices of Automation Systems
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Abstract

Programmable Logic Controller (PLC) kits are frequently developed based on generic PLC kits with inflexibility on the input and the output formats. This fact can waste the installation time of an industrial automation system. This research develops a PLC kit with software-based configurable input and output formats. GT Designer2 program is used to create a graphical user interface on a touch screen for input keying and output displays. Experiments showed that the proposed PLC kit can feed binary-code-decimal (BCD) inputs for testing electrical control PLC systems. With flexibility on the input and output formats, the proposed PLC kit can be conveniently used in real practice and help technician quickly increase their skills with automation systems.

Keywords: PLC kit/ Experiment/ Testing electrical control PLC systems