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- A programmable logic controller (PLC) is a specialized computer used to control machines and process.
 - It uses a programmable memory to store instructions and specific functions that include On/Off control, timing, counting, sequencing, arithmetic, and data handling
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Since a PLC is a computer, it stores information in the form of On or Off conditions (1 or 0), referred to as binary digits (bits). Sometimes binary digits are used individually and sometimes they are used to represent numerical values. Decimal System Various number systems are used by PLCs.

Programmable Logic Controller - PLC Tutorial for Beginners

PLC for dummies BE-ICS-FD Jerónimo ORTOLA Marc QUILICHINI icecontrols.support@cern.ch. PLC Programmable Logic Controller Designed for industrial processes. Works under severe conditions. Real time system. Handles sensors and actuators (I/O). - Overview Process control Collects inputs (digital, analog) Runs the process control Basic logic functions Complex algorithms (PID...) Safety functions ...

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status data of input devices. Energizes output devices that

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The purpose of a PLC was to directly replace electromechanical relays as logic elements, substituting instead a solid-state digital computer with a stored program, able to emulate the interconnection of many relays to perform certain logical tasks.

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The device mentioned above is known as a Programmable Logic Controller or PLC for short and the software that enables this virtual circuit building is known as Ladder Logic or Ladder Diagram. PLC's together with Ladder logic has transformed the industrial automation industry.

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Different PLC Relays. PLCs have solved the problem brought by relays, and it was thanks to the software-based relays that were designed for the PLC. These relays now only rely on the memory component of the PLC so instead of actually using relays to create a connection point, the memory of the PLC now only stores the states of the supposed relays.

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