Robert Featherston

PLC CH 1 HOMEWORK

A PLC is an industrial grade computer that is capable of being programmed to perform control functions.

Timing, Calculating, Comparing, Counting

Increased Reliability, More Flexibility, Lower Cost, Communications Capability, Faster Response Time, Easier To Troubleshoot

Modular I/O has different compartments into which separate modules can be plugged in.

A program is a user-developed series of instructions that directs the PLC to execute actions. Programming language provides rules for combining the instructions so that they produce the desired actions.

Relay Ladder Logic

A. When the pressure is reached it has to be turned on with the temp switch B. Used with pressure switch or the manual pushbutton overrides the temp and pressure when a set temp is reached. C. series they both need to be on to power the motor. D. With temp and pressure switch both on or the pushbutton on E. 120V 120V 120V

PLC software that allows the user to program and document gives the user the tools to write a PLC program and (HMI) or Human Machine Interface

131,072

# of I/O points used, Size of control program, Data-collecting requirements, Supervisory functions required, Future expansion

It list the different types of instructions supported.