ABSTRACT

At this moment the conditions in PPNS Lab.Steam power plant experience is one of many problems is a problem in the turbine of which includes Over speed, Adjustment steam valve, Performance parameters Rpm-meters. We solve problems of the turbine based on a lack of work setabilan turbine. Dalunya turbine which works on an even keel for the turbine spins can be in control with Gavernor but with the passage over the age of 20 years in power plant Lab.Steam PPNS Gavernor so damaged turbine work can’t be stable. Once the turbine rotational speed can be in control with performance-meter Rpm parameters can show up 4000Rpm, if the parameter indicates the number Rpm 4000Rpm Trip turbine will experience, but at present Rpm-meter parameters can only show numbers 2500-3000Rpm, when more than 3000Rpm Rpm-meter parameters can’t show numbers or can’t detect the speed of rotation of the turbine. Therefore, the performance parameters can’t work accurately and can’t experience tripping.

With this background and these considerations, the author tries to offer a solution where we make our adjustmen steam valve using the 1Phasa motor to rotate the valve use automatically so no manual entry in the steam turbine, over-speed protection system and parameters performance-meter Rpm useful for detecting rotation speed of the turbine speed sensor assisted with, we control all of the circuit mikrocontroller ATMEGA 8

Keywords: ATMEGA8, Motor 1Phasa, speed sensor