

A PRODUCTION MONITORING SYSTEM USING EZAUTOMATION CONTROL PRODUCTS

This application note describes a production monitoring system. The system monitors production count and machine downtime. The system consists of EZPLC, EZMarquee, and EZ Panel with RMC card. The EZPLC gets machine down signal from a machine controller. Operator is then prompted to enter a code indicating reason for machine being down. This code and time is retained in the history. In addition the system tracks the time that the machine remains down. Production count, downtime and the reason code are displayed on EZmarquee.

SYSTEM DIAGRAM:





DESCRIPTION

In this demonstration, we assume that the controlling PLC provides two discrete signals. One to indicate that a part is made, two to indicate the machine is down.

For each "Product made" signal, the production counter is updated in the PLC. If machine makes more than one part per signal, we can increase the count by the number of parts machine makes for each signal. The production count is sent to the EZMarquee. EZ Touch Panel displays the counts and also periodically logs the count in the SD card. (the demo program logs it every 2 sec; in practice users may record it every hour or every day.)

When the EZPLC receives a machine down signal, the panel would prompt user to enter a code for a reason for machine being down. The PLC would track the downtime of the machine, and display this on the panel. The Panel would show an alarm as long as the machine is down. The alarm is also set to send an email. The panel logs the downtime as well.

A screen shot of the Panel program is shown below:

