

PLC Based Automatic Sprinkler System For A Small Scale Irrigation System



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Abstract

We have designed and implemented PLC based automatic sprinkler system for a small scale irrigation system. The main objective of this project is that it can avoid us from the wastage of water, labor cost and this is done with the usage of PLC device which can improve our irrigation system with the help of humidity sensor and temperature sensor. It improves the old methods of irrigation system which are expensive and also time consuming. It can help us in irrigation with low cost of labor and less usage of water and also time saving. This new technique will help us also to reduce the hazardous impact on environment. The existing old techniques of irrigation methods are most frustrated for country and farmers in the form of high cost, wastage of water and time. Our project is based on PLC with humidity and temperature sensors can get rid from all of these frustrations.

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CHAPTER 1 Introduction

1.1 Statement of the problem

Irrigation system has been lasted years in Pakistan which is habitually done, Farmers are traditionally accustomed to directing flood (surface) water for enlarge their crops .These irrigation systems have many disadvantage like wastage of water, high labor cost, timing problems, uniformity of water distribution, so that each plant cannot get water of its need , either too much or too little. Since the system will be uncontrolled the soil is extremely wet .These systems have low requirements for the basic systems and services but need high labor cost. So our project comes up with a restorative to solve the above problem with high efficiency and low water usage

