

PROTOTYPE OF SHORT RANGE WIRELESS COMMUNICATION FOR INDUSTRIAL PROCESS CONTROLLER

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ABSTRACT

Electrical equivalent of physical quantities like pressure, temperatures etc are need to transmit over the wired network or buses. These parameters are received by process controller that monitor the processes and send control signals to process again over the wired network or buses. This mechanism leads to a huge number of wires that ultimately increases the complexity of the system and reduce the reliability. Objective of our work to solve this issue using short range wireless technology. We have established communication between 8051 microcontroller and personal computer through Bluetooth module. This hardware-software co-design facilitates any industrial process controller with low cost, low power and reliable communication link.

KEYWORDS: Bluetooth Modem, HyperTerminal, Microcontroller