Technofist

WSN BASED DATA ACQUISITION SYSTEM FOR MULTIPLE FAULTS MONITORING AND CONTROLLING SYSTEM

ABSTRACT:

In this paper, a scheme for fault detection and identification process in industrial environment is developed. Fault detection techniques based on mean square value of the difference between incoming and outgoing sensors of each section. These differences are compared against threshold setting values. Fault identification is based on the analysis of sensor values and monitoring using pc. We are proposing a ZIgbee wireless communication device to acquire sensor values and control the outputs.

Detect faults in remote Industrial equipments :

♣ Immediately transmit any fault information to the PC.

♣ Monitor multiple parameters such as voltage, current, Vibrations, Gas and temperature simultaneously

♣ Transfer data through a wireless medium such as Zigbee.

FEATURES

♣ No wires involved

♣ Can detect faults due to over current, under voltage, increased temperature etc.,.

♣ Can operate in any environment in industries.

♣ Can monitor multiple faults simultaneously by supervisors.