Remote Monitoring of Process in Industry Using ARM7 and Wireless Sensor Network

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Abstract

Industries are setting new standards for processes, which are crucial to meet the challenges. These challenges include gamut of processes for monitoring, precision, safety and many more. In this paper the monitoring of physical parameter at real time environment is proposed. The scheme implemented provides remote monitoring of process in industry using ARM7 controller and Wireless Sensor Network. For long distance monitoring at working place we used ZigBee which will be responsible for transmitting and receiving the sensed values from the parallel processors. With the help of ARM7 controller the data of interest i.e. variation in light, gas and temperature is sensed and transmitted to remote mobile phone and PDA's, which makes it remote monitoring application. Practical implementation of the scheme makes its use apparent for monitoring.

Keyword: ARM7, Parallel Processing, ZigBee, Monitoring, Wireless Sensor Network