

RASPBERRY PI BASED ONLINE PARAMETERS MONITORING AND CONTROL SYSTEM IMPLEMENTED USING FOUR SENSOR NODES

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Abstract:

In the system proposed in this paper, Raspberry Pi is used and interfaced it with four different sensor nodes, which are the combination of an Atmel ATtiny2313 microcontroller and resistive temperature detector (RTD). PT-100 is used as a temperature measuring transducer. The system capable of controlling industrial parameter temperature that also needs to be monitored. ZigBee module is used for wireless data transmission from sensor node to Raspberry Pi. A stipulation has also been provided in the proposed system that can be accessed for monitoring and control through the web and an online data base can also be created to store the occurrence of any undesired reading and the curative action may also be recorded for the future operations. The proposed system can be equally applied to all the dangerous and harsh industrial surroundings where a conventional system may not work well.

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