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RESEARCH ARTICLE

DESIGN AND IMPLEMENTATION OF MULTIPLE SENSOR INTERFACE USING ETHERNET

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Abstract: Data Monitoring Application using Cortex M3 Core Processor” We combine the mature technology of Web with the embedded and fully utilize the advantages of both. The System can complete the remote monitoring and maintenance operations of equipment through the network using Web browser. Through introducing Internet into control network, it is possible to break through the spatial temporal restriction of traditional control network and effectively achieve remote sensing, monitoring and real-time controlling for equipments.

Communication systems and especially the Internet are playing an important role in the daily life. Using this knowledge many applications are imaginable. Home automation, utility meters, security systems can be easily monitored using either special front-end software or a standard internet browser client from anywhere around the world. Web access functionality is embedded in a device to enable low cost widely accessible and enhance user interface functions for the device. A web server in the device provides access to the user interface functions for the device through a device web page. A web server can be embedded into any appliance and connected to the Internet so the appliance can be monitored through the browser in a desktop. Temperatures, Pressure, displacement, motion are the most often measured quantities. For example, some processes work only within a narrow range of temperatures; certain chemical reactions, biological processes, and even electronic circuits perform best within limited temperature ranges. So, it is necessary to measure the temperature and control if it exceeds some certain limit to avoid any misbehavior of the systems. To accurately control process temperature without operator involvement, a temperature control system relies upon a controller, which accepts a temperature sensor.

Full Text: <http://www.ijcsmc.com/docs/papers/January2014/V3I1201438.pdf>