

## 45. Microcontroller based conductivity meter

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### **ABSTRACT**

An embedded system is a combination of a piece of microcontroller based hardware and suitable software to understand a specific task. A real time microcontroller based conductivity measurement set-up has been developed to measure the dc conductivity of some polymers at various temperatures.

This paper explained the multichannel data acquisition system interface with the microcontroller to measure the dc conductivity of the sample at various temperatures. A microcontroller 89S52 is employed for this hardware.

**Keywords:** DC conductivity measurement, Temperature measurement, Data acquisition system, Microcontroller.