

# Embedded System for Temperature Measurement and Control, Choice of Sensor: A Comparative Study

**Shridhar Sharma**

J. M. Patel Art's, Commerce and Science College Bhandara, Maharashtra, India  
shridhar.sharman@gmail.com

**Abstract:** *This paper is about the comparative study and choice of sensor or transducer for design of embedded system for temperature measurement and control in industrial applications particularly related to chemical industries where specific temperature measurement is very much necessary with accuracy. The main part of the design is selection of sensor or transducer, which will give sufficient output in electrical form which can be later measured and control by microcomputer or microcontroller. The study of different sensor and transducer enables a user to select a particular sensor as per the requirements of temperature measurement, control and related environment.*

**Keywords:** Sensor, Thermocouple, RTD, Temperature range

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