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## EXPERIMENT NO. 4

**Objective: -**

Calibration of Thermocouples by using Multi-function Calibrator.

**Apparatus: -**

1. Multi-Function Calibrator (tecpe-cl-325)
2. Digital Multi Meter (escort-172)
3. J and k type thermocouple
4. Connecting wires
5. DC battery

**Theory: -**

**Multi Meter: -**

A multi-meter also known as a VOM (Volt-Ohm Meter), is an electronic instrument that combines several measurement functions in one unit. A typical multimeter would include basic features such as the ability to measure voltage, current, and resistance.

Analog multi-meters use a micro-ammeter whose pointer moves over a scale calibrated for all the different measurements that can be made. Digital multi-meters (DMM) display the measured value in numerals, and may also display a bar of a length proportional to the quantity being measured. Digital multi-meters are now far more common but Analog multi-meters are still preferable in some cases, for example when monitoring a rapidly varying value.

A Digital multimeter can be a hand-held device useful for basic fault finding and field service work, or a bench instrument that can measure to a very high degree of accuracy. They can be used to troubleshoot electrical problems in a wide array of industrial and household devices such as electronic equipment, motor controls, domestic appliances, power supplies, and wiring systems.



**Fig: Digital multi-meter**

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# Measurement And Control Lab Manual

**Daniel F McAuley**



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