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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

**Joacim Rocklöv**



## **Measurement And Control Lab Manual:**

*Laboratory Manual for Introductory Electronics Experiments* L. K. Maheshwari, M. M. S. Anand, 1979     *A Practical Guide to Basic Laboratory Andrology* David Mortimer, Lars Björndahl, C. L. R. Barratt, José Antonio Castilla, Roelof Menkveld, 2022-03-10 Preceded by *A practical guide to basic laboratory andrology* Lars Björndahl et al 2010     Laboratory Manual Kenneth W. Johnson, 1983     Control of Electric Machines Irving L. Kosow, 1973     *Subject Guide to Books in Print*, 1991     **Monthly Catalog of United States Government Publications** United States. Superintendent of Documents, 1984     **List of Library Books and Periodicals** Montreal. Pulp and Paper Research Institute of Canada. Library, 1967     Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction     **Resources in Education**, 1999     **Monthly Catalogue, United States Public Documents**, 1984     *Library of Congress Catalog* Library of Congress, 1970     **Journal of Applied Chemistry of the USSR.**, 1958     *Library of Congress Catalogs* Library of Congress, 1976     **Environmental Pollution & Control**, 1978     **Industrial Electronics: A Text-lab Manual** Paul B. Zbar, 1972     *Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office* Library of Congress. Copyright Office, 1925     **Electronics**, 1945 June issues 1941 44 and Nov issue 1945 include a buyers guide section     **Proceedings of the International Instrumentation Symposium**, 1999     *Proceedings of the 1985 American Control Conference*, 1985     Annual Report - Engineering Experiment Station, University of Wisconsin University of Wisconsin. Engineering Experiment Station, 1981

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