
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

Measurement Control Lab Manual

Silas Whitcomb Holman



Measurement Control Lab Manual:

Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari, M. M. S. Anand, 1979

Measurement technology for safeguards and materials control American Nuclear Society, 1980 Practical Guide to Low Voltage Directive Gregg Kervill, 1998-08-25 Compliance with the Low Voltage Directive LVD is now essential for CE marking Products cannot leave your firm without it This book provides essential and informative reading for company directors engineers designers and students designing manufacturing or studying the design of electrical products covered by the Low Voltage Directive Unlike many textbooks that offer general guidance only this book provides illustrated examples of non compliant products and suggests solutions It also provides detailed guidance notes to EN60950 one of the most widely used harmonised standards Gregg Kervill is an international consultant on European regulations and North American product safety standards His clients include blue chip and Fortune 500 companies as well as Government agencies Gregg Kervill advises his clients on self declaration of the Low Voltage Directive A guide to LVD compliance for managers and engineers alike Clear concise guidance through a legislative minefield Essential for companies all over Europe Practical Physics; a Laboratory Manual for Colleges and Technical Schools William Suddards Franklin, 1908 **Industrial Electronic Circuits Laboratory Manual** Farzin Asadi, 2024-01-06 Industrial Electronics is a branch of electronics which is used for industrial applications It plays a crucial role in the efficient and smooth operation of manufacturing facilities and industrial processes This book introduces the commonly used building blocks in industrial electronics The reader learns which circuit can be used for which application It is suitable as a laboratory manual for courses like industrial electronics or power electronics *Instruments, Industrial, Scientific* , 1929 Vols for 1938 44 1946 include an issue called the Instruments index published sometimes as pt 2 of a regular number sometimes as an extra number Monthly Catalogue, United States Public Documents , 1983 **Electrical Product Compliance and Safety Engineering, Volume 2** Steli Loznen, Constantin Bolintineanu, 2021-09-30 This second volume of an Artech House bestseller presents an enhanced approach toward product compliance and safety engineering Written by experts in the field this new volume presents practical material useful for novice and advanced practitioners Safety aspects of product approvals energy management environmental concerns material science radiation hazardous location and global market access are explored Practical features related to global market access are presented including specific documentation and local labeling requirements as well as language used for safety instructions and user manuals Compliance and safety aspects of specific applications such as information technology equipment audio video multimedia medical household alarms systems luminaires including LED lamps and lamp control industrial machinery and semiconductor manufacturing are discussed Environmental attributes including temperature atmospheric pressure relative humidity vibration shock and packaging transportation and how they affect product safety are analyzed Information about testing environmental HALT and HASS is also provided focusing on the compliance of electrical

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