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A direct measuring instrument measures the electrical unit by reading and deflection.

Ammeter, voltmeter, wattmeter are types of direct measuring

instruments. It is

mostly used in

engineering practical

study especially

electrical and

electronics stream. It is

simple and inexpensive

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as compared to the

comparison

instrument.

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**Electronics and**

**Electrical Measuring**

**Instruments and**

**their ...**

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MEASUREMENTS 15 1.

These instruments can be

used both on A.C and D.C

system. 2. These instruments

are robust and free

from maintenance 3. It

possesses high starting

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orque. 4. It can withstand momentary overloads.

5. It can give reasonable accuracy in the reading.

6. In this instrument the scale is nonuniform. 7. Power consumption is high at low voltage

8. The stiffness of the spring decreases with increase in temperature.

## **ELECTRICAL AND ELECTRONIC MEASUREMENTS**

Electricity meter:

Measures the amount

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of energy dissipated  
ESR meter: Measures

the equivalent series  
resistance of

capacitors Frequency

counter: Measures the  
frequency of the

current Leakage tester:

Measures leakage

across the plates of a

capacitor LCR meter:

Measures the

inductance,

capacitance and

resistance of a

component Megger

tester



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electronic  
measuring  
equipment ...**

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Instrumentation By AK

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comprehensive course

book for engineering

students. The book is

divided into two parts

that explain the topics

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essential for students

specializing in

Electrical and

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**Measurements and  
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Ampere is the electrical unit of electrical current. It measures the amount of electrical charge that flows in an electrical circuit per 1 second.  $1A = 1C / 1s$ .

Ohm ( $\Omega$ ) Ohm is the electrical unit of resistance.  $1\Omega = 1V / 1A$ . Watt (W) Watt is the electrical unit of electric power. It measures the rate of

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consumed energy.  $1W = 1J/1s$ .  $1W = 1V \cdot 1A$

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**Electrical units of measurement**

**(V,A, $\Omega$ ,W,...)**

Electrical

measurements are the methods, devices and calculations used to measure electrical quantities.

Measurement of electrical quantities may be done to measure electrical parameters of a

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system. Using transducers, physical properties such as temperature, pressure, flow, force

## **Electrical measurements - Wikipedia**

Electrical

measurements.

Measurements of the many quantities by which the behavior of electricity is characterized.

Measurements of

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electrical quantities extend over a wide dynamic range and frequencies ranging from 0 to 10<sup>12</sup> Hz. The International System of Units (SI) is in universal use for all electrical measurements.

Electrical

measurements are ultimately based on comparisons with realizations, that is, reference standards, of the various SI units.

These reference

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Sawhney, is a comprehensive course book for engineering students. The book is divided into two parts that explain the topics Measurements and Instrumentation. It is essential for students specializing in Electrical and Electronic engineering.

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## **ELECTRICAL MEASUREMENTS & INSTRUMENTATION**

Q1: What do you mean  
by electronic

measurements? A1:

Generally, any  
instruments which are  
used to measure any

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quantity are known as measuring instruments. When the instruments measure electrical quantities such as current, voltage etc, they are known as electronic measurements. There are two types of basic electrical measuring instruments. Ammeters

**Electronic  
Measurements and  
Instrumentation  
(EMI) Pdf Notes**

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As the name suggests, ammeter is a measuring instrument which measures the current flowing through any two points of an electric circuit. The unit of current is ampere and the measuring instrument is meter. The word “ammeter” is obtained by combining “am” of ampere with “meter”.

**Electronic Measuring Instruments -**

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## **Tutorialspoint**

These electrical units of measurement are based on the International (metric) System, also known as the SI System with other commonly used electrical units being derived from SI base units. Sometimes in electrical or electronic circuits and systems it is necessary to use multiples or sub-multiples (fractions) of these standard

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electrical measuring units when the quantities being measured are very large or very small.

## **Electrical Units of Measure and Descriptions**

Prof Avishek Chatterjee  
IIT Kharagpur

## **NPTEL: Electrical Measurement and Electronic Instruments ...**

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Types of electrical  
measurement systems:

motion and

dimensional

measurements. These

measurements include

the detection of

absolute and relative

position, velocity,

acceleration and jerk.

There are some

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## **Types of electrical measurement systems**

A basic electronics device or instrument used to measure voltage or electrical potential difference between two points in electrical circuits is known as voltmeter.

There are two types of voltmeters: analog and

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digital. An analog voltmeter moves a pointer across a scale in proportional to the voltage of the electrical circuit. A digital voltmeter measures an unknown input voltage by converting the voltage to a digital value by using a converter and then displays the voltage in numeric form.

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