

Digital Nano Ammeter

- Measures current down to 100pA
- All solid state and IC design
- Accepts either polarity of input current



Introduction

Digital Nanoammeter, a rugged and low cost instrument, is a product of extensive R&D using high input impedance integrated circuits. It has 4 decade ranges with 100% over-ranging. The unit is suitable for current measurement in the range of 100pA to 200 μ A. For the ease, readings are directly obtained on a 3½ digit DPM. The instrument is capable of accepting either polarity of the input current.

The very low leakage current of the input stage combined with the high linearity fast response due to high negative feedback enables accurate and easily reproducible measurements. The instrument uses a FET input operational amplifier that offers the very low input bias current, low offset voltage, low drift and noise. These characteristics have been fully utilized in the present Nanoammeter. This operational amplifier is used in low level current to voltage configuration.

Applications

- To measure current from photomultiplier tubes, photometer etc.
- Leakage currents in solid state devices. FET gate and tube grid voltages without loading errors.
- Current through very high resistance in conjunction with a power supply.
- Potentials across semiconductors, piezoelectric systems & pH electrodes.

Specifications

Parameter	Value
Range	100nA, 1mA, 10mA, 100mA with 100% over-ranging
Accuracy	0.2% for all ranges
Resolution	0.1nA
Input Resistance	25W, 2.5W, 0.25W, 0.025W
Display	3½ digit 7 segment LED with auto polarity and decimal indication
Input	Through amphenol connector
Power Supply	220V \pm 10%, 50Hz
Weight	2.5Kg
Dimensions	240mm X 275mm X 120mm

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