

## Digital Pico Ammeter

- Measures current down to 1pA
- All solid state and IC design
- Very low offset current



### Features

This is a very versatile multipurpose equipment for the measurement of low dc currents. It has 6 decade ranges with 100% over-ranging from 10<sup>-9</sup>A to 10<sup>-4</sup>A. For the ease, readings are directly obtained on a 3½ digit DPM.

The instrument uses a well-designed precision FET input electrometer operational amplifier AD549, which offers the lowest input bias currents (50fA with 10fA  $\pm$ 5V supplies) available in any standard operational amplifier. The excellent characteristics of AD549, ultra-low bias current, low offset voltage, low drift and low noise have been fully utilized to obtain best results in the present picoammeter. The first operational amplifier AD549 is used in low level current to voltage configuration and the output has been directly read on a 3½ digit panel meter. The instrument is capable of accepting either polarity of the input current. Well regulated power supplies are incorporated to use the instrument upto 10% changes in a.c. main's voltage

### Applications

- Current from Photomultiplier tubes, Photometers etc.
- Leakage currents in solid state devices.
- FET gate and tube grid-voltage without loading errors
- Current through very high resistance's in conjunction with a power supply
- Potentials across semiconductors, piezoelectric system & pH/plon sensitive electrodes
- Electrical conductivity of air
- Very low current oxygen sensors

### Specifications

Parameter	Value
Multiplier	X1X10 to the power 2, X10 to the power 3, X10 to the power 3, X10 to the power 4
Accuracy	0.2% for all ranges
Resolution	1pA, 10pA, 100pA, 1nA, 10nA, 100nA
Input Resistance	2.5KW, 0.25KW, 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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