

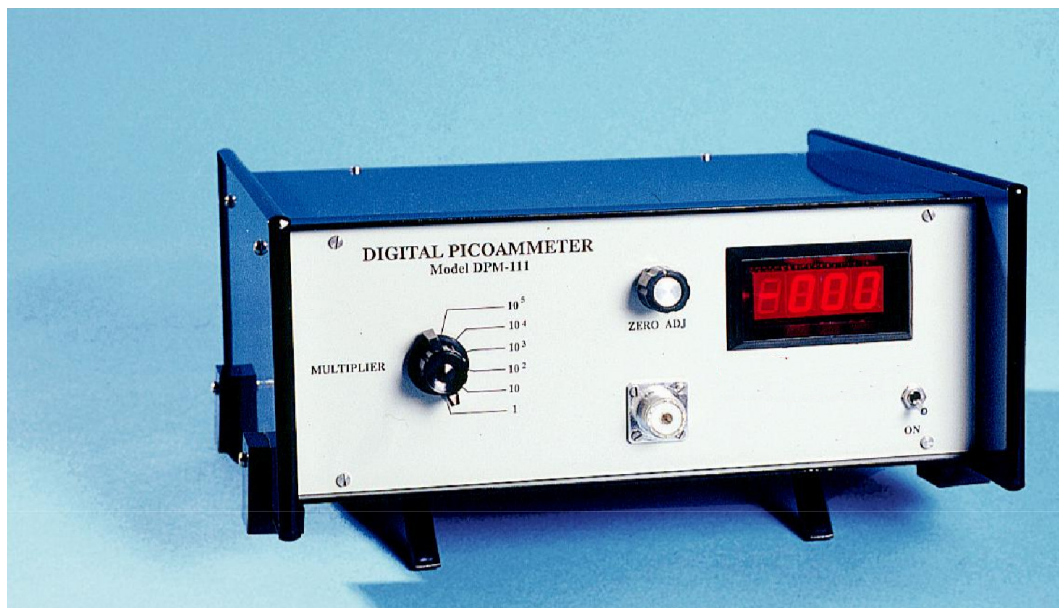
VIJAYANTA

VIJAI ELECTRONICS
28/147, CIVIL LINES
ROORKEE - 247667



WSC
ISO - 9001-2008
Certificate No. WSC-215028-A

DIGITAL PICOAMMETER MODEL : DPM-111



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

This is a very versatile multipurpose equipment for the measurement of low dc currents. It has *6 decade ranges with 100% over-ranging* from 10-9A to 10-4A. 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 $\pm 5V$ 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.

VIJAYANTA

VIJAI ELECTRONICS
28/147, CIVIL LINES
ROORKEE - 247667



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

SPECIFICATION :

Multiplier	X1, X10, X102, X103, X104, X105
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 (12.5mm height) with auto polarity
Input	Through amphenol connector
Power Supply	220V ±10%, 50Hz
Weight	2.5Kg
Dimensions	240mm X 275mm X 120mm