

Portable SEM Probe Current Meter

- DIRECT READOUT OF ABSORBED CURRENT
 - BATTERY POWERED
 - 3½ DIGIT RESOLUTION
 - LOW COST
- IDEAL FOR SERVICE ENGINEERS

A low-cost 3½-digit liquid crystal display readout of Electron Beam Probe Current. The free-standing meter is battery powered and measures from below 1pA to 2μA in five switched ranges.

The meter has automatic zero correction but there may be small residual error not exceeding 5pA at 25°C. Where absolute readings are required on low ranges this small error may be subtracted from the reading obtained.

The input is designed to accept large overloads in excess of 100μA without sustaining damage. Its small size allows the unit to be easily located near the SEM itself.

A Faraday Cup is supplied with each unit to enable accurate measurements of probe current to be made. If an appropriate feedthrough for the SEM chamber is not available, Deben can supply one at additional cost.



Specifications

Ranges:

- 1.99.9pA accuracy +/- 5% f.s.
- 1.999nA accuracy +/- 5% f.s.
- 19.99nA accuracy +/- 2% f.s.
- 199.9nA accuracy +/- 2% f.s.
- 1.999μA accuracy +/- 2% f.s.

Auto Zero Correction: Max error 5pA at 25°C.

Overload: In excess of 100uA.

Power: Battery 4 x AA alkaline cells giving typically 10,000 hours operation (1.2 years).

Size: 130mm(W) x 70mm(H) x 115mm(D)

Warranty Period: One year

Part number for ordering: 087-001

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