



THE LAB EQUIPMENT

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Product Name :

Teltron Perrin Tube D

Product Code :

SLE/PHY/308



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Description :

Teltron Discharge Tubes

The Teltron range of demonstration discharge tubes has been designed to show the properties of the free electron.

The D range is the original Teltron range with connections fixed on the tubes.

The S range is a newer range with connections on the stand rather than the tubes.

Other equipment for use with the Teltron tubes :

EHT Power Supply

Digital Meter with two shunts included

Shrouded Test Lead Red

Shrouded Test Lead Black

Teltron Perrin Tube D

Highly evacuated electron tube with focusing electron gun and fluorescent screen inclined relative to the beam axis so that the path of the beam can be seen and the effects of electric and magnetic fields can be studied.

The electron beam can be deflected using two methods :

Electrically using electric field of the built-in plate capacitor

Magnetically using external Helmholtz Coils D.

Also determine the fundamental electron charge to mass ratio (e/m) and study mean electron velocities using field cancellation.

Technical Specifications :

Anode current: approx. 0.1 mA at 4 kV (anode).

Max. filament voltage: 6.3 V AC

Max. anode voltage: 5 kV

Max. capacitor voltage: 500 V

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