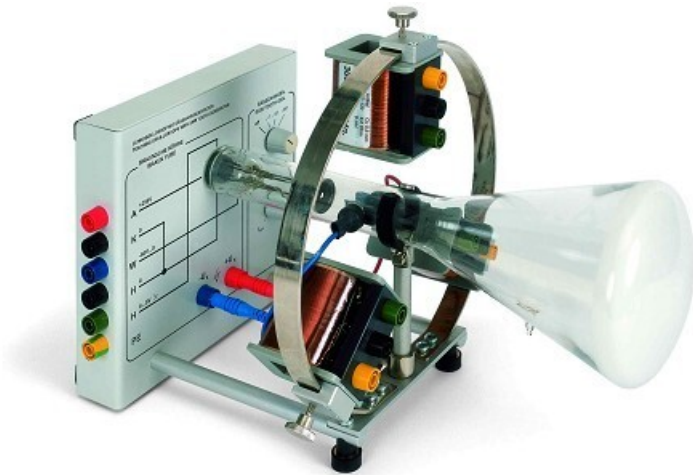


TRAINING OSCILLOSCOPE -U8481350



Electron tube mounted on terminal base for investigating the design and operation of modern cathode ray tubes. The electron beam can be deflected by an electric field produced by the deflection plates integrated into the tube, and by a magnetic field from three external coils mounted on a ring. A Wehnelt cylinder is used to focus the beam. A gas filling and fluorescent screen makes it possible to observe the beam in the tube. A continuously adjustable saw-tooth generator can be used to analyze and visualize time dependent processes. The device comes with a socket and printed wiring scheme

Experiment topics:

Linear propagation of electrons in a zero-field space

Deflection of electron beams in an electrical field

Deflection of electron beams in a magnetic field

Magnetic lens

Phase displacement, superimposition of magnetic fields, Lissajous figures

Determination of an electron's specific charge

Determination of an electron's speed

Specifications:

Anode voltage: 250 – 400 V DC

Anode current: 1 mA

Filament voltage: 6 – 8 V AC/DC

Filament current: 0.3 A

Wehnelt voltage: 0 – 50 V DC

Deflection plate dimensions: approx. 12x20 mm²

Plate spacing: approx. 12 mm

Electric deflection sensitivity: 0.2 mm/V

Screen diameter: approx. 100 mm

Tube length: approx. 260 mm

Residual gas: Neon

Gas pressure: 10⁻⁴ hPa

Sweep frequency: 10 – 200 Hz, continuously adjustable

3 deflection coils: 600 turns each, with a centre pickup

Weight: approx. 1.6 kg

Properties

| | |
|--------------|-------------------|
| Product code | 1000902/3B |
| | U8481350 |

Meer info: <https://www.leermiddelen.be>