

**U8557540 - Fine Beam Tube on
Connection Base R**
Order code: **5401.1019957**



Cena bez DPH

1.351,00 Eur

Price with VAT

1.634,71 Eur

Parameters

For examining the deflection of electron beams in a uniform magnetic field using a pair of Helmholtz coils (1000906) and for the quantitative determination of the specific charge of the electron e/m . Glass vessel with integrated electron beam system, consisting of an indirectly heated oxide cathode, a Wehnelt cylinder and a perforated anode, in neon residual gas atmosphere with precisely set gas pressure and with integrated measurement marks for parallax-free determination of the diameter of the fine beam. Gas atoms are ionized along the electron path and produce a sharply defined, visible fluorescent beam. Tube mounted on base with colour coded connectors.

Experiment Topics:

- Deflection of electrons in a closed circular path inside a magnetic field.
- Determination of specific charge of an electron e/m .

Technical data:

- Gas filling: Neon
- Gas pressure: 1.3×10^{-5} hPa
- Filament voltage: 5 – 7 V DC
- Filament current: < 150 mA
- Wehnelt voltage: 0 – -50 V
- Anode voltage: 200 – 300 V
- Anode current: < 0.3 mA
- Circular path diameter: 20 – 120 mm
- Division spacing: approx. 20 mm
- Tube diameter: approx. 160 mm
- Dimensions: approx. 115x115x35 mm³
- Weight: approx. 820 g

Required:

5401.1003308 DC Napájecí zdroj 0 – 500 V
5401. 1000906 Helmholtzovy cívký 300 mm