

Single Faraday Cup

FC/I 01



**Internal mounted
FC/I 01 Faraday Cup**

Key Design Features

- **Functional system** for easy and quick installation
- Compact graphite housing

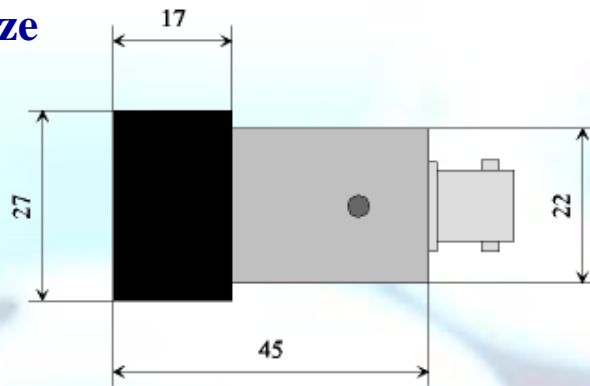
Advantages

- Useable for **long time measurements** with high thermal load of the Faraday cup
- **Quick and easy maintenance** of the graphite aperture and long working cycles

**The standard solution for measuring
current density and beam profile!**

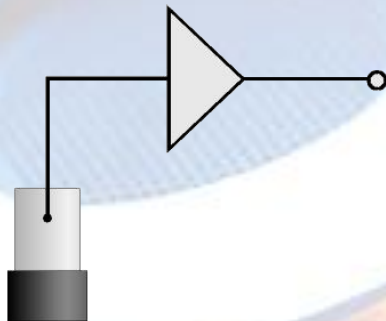


Dimensions / Size

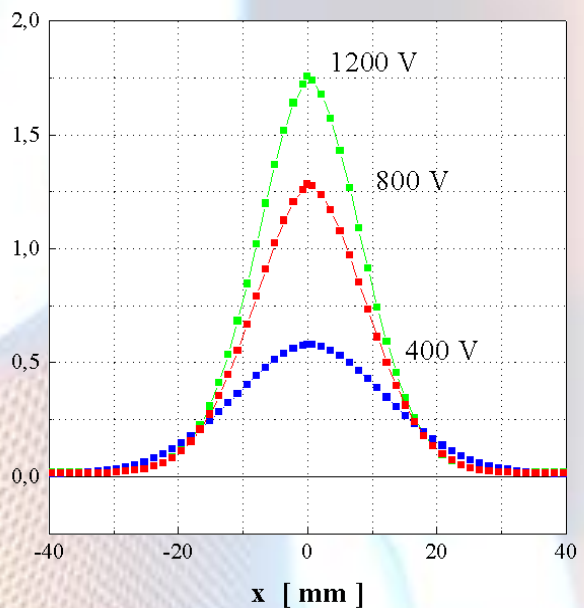


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Description



j_{beam} [mA * cm⁻²]



Beam profiles at different beam energies

The Faraday cup enables the measuring of the beam profile and the ion current density in substrate position.

Principle

- Measuring of the ion flux at small graphite probe
- Probe behind a grounded graphite shield with a small aperture (1 mm in diameter)
- **Measuring of the beam profile** by scanning of the ion source or the Faraday cup



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