

4 SECTOR FARADAY CUP

- FARADAY CUP WITH 4 ADDITIONAL ELECTRODES FOR BEAM POSITIONING -



4 Sector Faraday Cup

The 4 Sector Faraday Cup has been developed for positioning of charged particle beams during transportation through a beamline. The particle beam current can be measured on a central electrode of a certain diameter as well as on four segments surrounding the central electrode. Thus, a broad, off-axis incoming beam can step-by-step be focused and deflected in the right direction.

In addition to the 4 Sector Faraday Cup itself, the following equipment is available:

- linear vacuum feedthrough with manual or motor-driven positioning system
- vacuum chamber
- electrical feedthroughs and connection of cup inside a vacuum chamber
- picoampere meter or electrometer for measurement of charged particle current or pulses
- control and measurement software

FARADAY CUP PARAMETERS

central electrode diameter	2 mm, 5 mm or customer-specific
diameter of entire sensitive area	2 cm or customer-specific
recommended suppressor voltage	50 V
max. beam power without additional cooling	20 mW
dimensions (length x width x height)	42 mm x 36 mm x 55 mm
bake-out temperature	150 °C
vacuum conditions during operation	from 1e-10 mbar up to atmospheric pressure

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