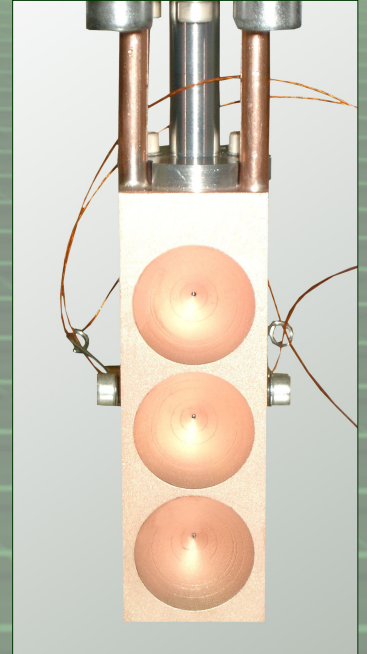
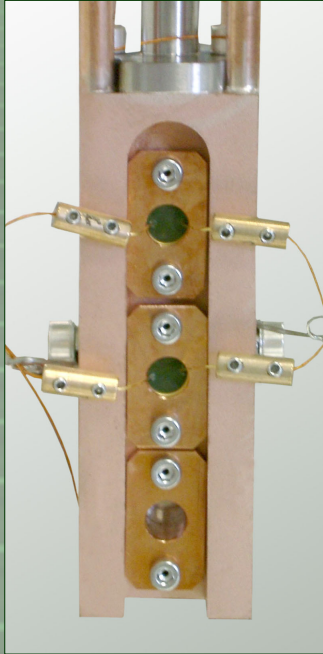


Profile Monitor



The profile monitor is used for detecting beam profiles at a high spatial resolution.

GaAsP photodiodes (Schottky type) in a UHV-compatible design will be used as sensors. The resolution of $50 \mu\text{m}$ is achieved by pin holes of the same diameter installed before the photodiode. For measurements in the white light mode a filter is installed before the pin holes and the diode. The cooled monitor head is made of OFHC copper and can be moved via a power-driven manipulator either in a linear motion or in two coordinates orthogonally to the beam. The manipulator stroke allows the use of three measuring points of selectable configuration as well as the complete removal of the monitor out of the beam. The expected photon flows will be measured using pico-ammeters.

FMB GmbH

FMB Feinwerk- und Meßtechnik GmbH
Friedrich Wöhler Strasse 2
D - 12489 Berlin
Germany

Phone : +49 (0) 30 67 77 30 - 0
Fax : +49 (0) 30 67 77 30 - 40
E-mail : info@fmb-berlin.de
www.fmb-berlin.de



Profile Monitor

Technical Data.

Energy range:	1 keV ... 20 keV
Diode type:	GaAsP, Schottky type (Hamamatsu)
Active diode surface:	2.3 mm x 2.3 mm
Basic flange:	CF 100
Monitor head:	OFHC copper
Manipulator stroke:	100 mm vertical, 10 mm horizontal
Drive:	stepping motor, encoder with integrated references, limit switch
Cooling:	2 symmetric circulations with OFHC copper pipe, Ø 6x1
Temperature measurement:	2 TC, K-type
Photo-current measurement:	2 pico-ammeters (Keithley 6485 or equivalent)
UHV compatibility:	yes

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E-mail : info@fmb-berlin.de
www.fmb-berlin.de