



Specifications

Frequency resolution	<0.01Hz	
Thermal resolution per wire material		
Stainless steel SS	0.3mK	
Bronze B	0.6mK	
Tungsten W	1.0mK	
Deposited heat power resolution		
	In vacuum	In air
Stainless steel SS	7E-9 W	1E-6 W
Bronze B	5E-8 W	2.6E-6 W
Tungsten W	3E-7 W	5.4E-6 W
Response time	In vacuum	In air
Stainless steel SS	20s	0.23s
Bronze B	9s	0.21s
Tungsten W	2s	0.16s

Order codes

VWM-S-1W-A__mm	Sensor, 1 wire, __mm free aperture Possible apertures: 5, 20, 40, 60mm
-SS	Stainless steel wire
-B	Bronze wire
-W	Tungsten wire
VWM-FEE	Front-end electronics for 2 wires
VWM-RFC	Chassis housing up to 6 boards
VWM-2WB	Board supporting 2 wires
VWM-RJC/xx	RJ45 cable Cat.5, max 50m

VWM system components

- VWM 1-wire Sensor
- Twisted pair cable from Sensor to Front-End Electronics
- Front-End Electronics box, each supports 2 Sensors
- Front-end to chassis RJ45 cable, up to 50 meters
- Chassis, can support up to 6 Front-End Electronics

Beam transverse profile and position Beam Halo measurement

Fixed or moving sensor for protons, ions, electrons, photons, neutrons:

Electron beam scan in vacuum

- 20 MeV electrons
- 70pA wire-intercepted current resolution

Proton beam scan in vacuum

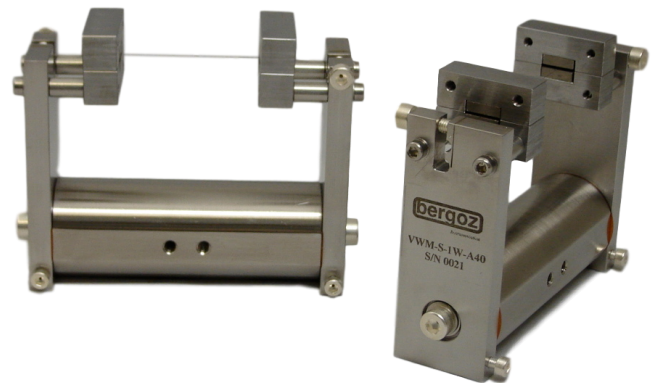
- 15 GeV protons
- 3pA wire-intercepted current resolution

Photon beam scan in vacuum

- 14 keV photon mean energy
- 1.4E+7 ph/s wire-intercepted flux resolution

Photon beam scan in air

- 100 keV photon mean energy
- 3E+13 ph/s wire-intercepted flux resolution



VWM was developed on the basis of Suren Arutunian Vibrating Wire Scanner. Dr. Arutunian received the Faraday Cup 2008 for this innovation

DISTRIBUTORS

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