Product Datasheet

Tungsten Vial Shields

Lightweight unbreakable shield providing maximum protection. The smooth polished surface of the tungsten alloy is easy to keep clean or sterilise. Designed to accommodate reagent vials from most kit manufacturers. The removable screw top has a dished opening to expose vial septum. The vial top is held firmly against the septum opening by an internal spring.



Key Features

- Lead Shielding Options

Material Specifications

Tungsten Pot and Lid: Tungsten 90% plus Ni and Cu Balanced
Spring: Compression – BS 1726 PT 1 (2002) Stainless Steel
Insert: Plastic
Cap: Plastic with tungsten disc (2BT.TVPC3/6)

Specifications

Code	Description	Cap Type	Lead Thickness (mm)	Internal Dimensions (H x Dia.) (mm)
2BT-TVPC3	Tungsten Vial Shield	Plastic Cap (Tungsten Insert)	3	60 x 27
2BT-TVPC6	Tungsten Vial Shield	Plastic Cap (Tungsten Insert)	6	60 x 27
2BT-TVST3	Tungsten Vial Shield	Tungsten Swivel Top	3	60 x 27
2BT-TVST6	Tungsten Vial Shield	Tungsten Swivel Top	6	60 x 27
2BT-TVE	Tungsten Vial Shield	Plastic Cap (Lead Insert)	6	60 x 31

Custom sizes and lead thicknesses available on request

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Specifications

Scintillation Detector Options

A number of scintillation probes are available for sensitive contamination measurements of Alpha and Beta/Gamma radiation.

SS404 AI: Low energy gamma scintillation probe.

SS404 Be: Very low energy gamma scintillation probe.

SS440 B: Beta scintillation probe. Active Area 20 cm^2

SS500: NaI (Tl) 25.4 x 25.4 mm gamma probe.

SS600: A/B/AB: Alpha, beta, alpha/ beta dual phosphor. Area 100 cm^2

SS700: A/B/AB: Alpha, beta, alpha/ beta dual phosphor. Area 50 cm^2

Geiger Müller Detector Options

SS300: Pancake Geiger for alpha, beta, gamma and X-ray radiation.

SS315: End window for alpha, beta, gamma and X-ray radiation.

SS330: Compensated pancake Geiger for ambient gamma radiation H*(10).

SS335: Compensated end window Geiger for ambient gamma radiation H*(10).

SS340: Compensated GM probe for H*(10) measurements.

Mechanical	
Dimensions	160 x 250 x 85 mm approx. (with stand)
Weight	1.1 kg
Units	CPS, CPM, µSv/hr with autorange
Display	Clear backlit LCD Display
Controls	Power, up, down, OK (menu keys)

Radiological Performance	
Range	Count rate or dose rate according to configured probe (see relevant datasheets).
Response Time	0.5 seconds Averaging: 5, 10, 15 seconds Integration time up to 24 hrs
Functionality	Rate, histogram, timed count, count to time, time remaining to dose, alpha beta discrimination (depending on probe)
High Voltage	350 - 1200V selectable in menu (can be locked)
Averaging	'Smart Averaging' provides fluid number change, whist retaining a response time adjustable between slow, medium and fast

Power	
Battery	Lithium Ion rechargeable Charger supplied
Battery Life	Typically >12 hours continuous use

Environmental	
Operating Temperature	-10°C to +50°C
Storage Temperature	-25°C to +60°C

Compliance	
Standard Compliance	In conformity with EMC directive (89/336/EEC) as amended by Directive 92/31/EEC Low Voltage Directive (73/23/EEC), EN61326-1,EN61000-3-2, EN6100-3-3. (CE mark). Designed to meet IEC 60325-2006 and IEC 60846-2004 Nuclear Instrumentation Standards

*Dose rate probes are set up to read in µSv/hr by default.
For measurements in rem/hr, please specify at point of order.

Specifications are subject to change without notice.
For the most up-to-date specifications, please visit www.southernscientific.co.uk

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