

Digital Ratemeter Scaler

Model Series: TBM-3D with PAS-9

PAS-9 Detector Description

Alpha Scintillation Probe with a 5-1/2" diameter x 0.8 mg/cm² window. The 100 cm² face of this probe allows rapid surveys to be made of personnel, equipment or flat surfaces.

- Background is in the order of several counts per hour.
- Sensitivity is 10 to 20% for 5 MeV.
- Alphas based on 4Pi geometry (20 to 40% based on 2Pi geometry).

The protective grid is physically separated from the window thus making contamination of the window extremely unlikely. Grid may be removed for cleaning without disturbing the window. Some sacrifice of sensitivity has been made for this feature.

Specifications:

TBM-3D Electronics:

Detector Connector:	Mates with GM Probes or Alpha scintillation detectors. BNC - Standard
Detector Bias Supply:	400 V DC to 1200 V regulated and filtered. Other voltage levels-optional.
Efficiency:	Greater than 25%
Units:	Cps, bq - User Settable

Power:

Batteries:	6 AA cells
Battery Life:	100 hours with Alkaline cells (200 hours with - Lithium cells).
Battery Check:	Push button and LED indicator.

Construction:	All plug in circuit cards, essentially no wires. Rugged, lightweight
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Weight and Dimensions

Dimensions:	3" H x 5.3" W x 3" D (76mm H x 134mm W x 76mm D) excluding handle and knobs.
Weight:	21 oz. (600 grams)
Options:	Alarm circuit with red LED and audio alarm (User Settable) Computer Interface: USB / RS-232 serial circuit Pre-amp for proportional detectors Other connectors - MHV etc. In-place rechargeable batteries



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