

DIGITAL FRISKER

Model ~ TBM-15-D

FEATURES:

- ALPHA, BETA AND GAMMA
- LIGHTWEIGHT
- SINGLE RANGE
- FOUR DECADES
- ONE or TWO HAND OPERATION (BUILT-IN PROBE HOLDER)
- DETACHABLE PANCAKE PROBE
- BUILT-IN SONALERT
- ANTI-SATURATION CIRCUIT
- OPTIONAL: USB PORT
- **IP64**
- **CE Mark**



DESCRIPTION:

- Small Digital Ratemeter with separable 2" diameter pancake probe.
- Alpha, Beta and Gamma detection.
- Reads out in mR/hr (Optional μ Sv/h or cpm, cps).
- Thin probe window is recessed and protected by sturdy stainless steel grill.
- Anti-saturation circuit will not fall below full scale in high fields.
- Tested to 100 R/hr.
- Sonalert gives audible rate indication.
- Built-In Probe Holder – tongue and groove probe holder on bottom of instrument case

APPLICATION:

Its small size, light weight, separate probe and large detector area make this a very useful monitor for surveying bench tops or checking hands, clothes and fingertips for almost any radioactive contamination.

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SPECIFICATIONS:

Read-out:	Rugged 6 digit display.
Ranges:	0.01 to 200 mR/hr, no range switching. (0-500,000 cpm)
Linearity:	+/- 15% of full scale with pulse generator.
Battery Test:	Push button.
Audio:	Sonalert.
Two Time Constants:	Fast & Slow (each is user programmable) 0 to 90% of final reading. User Settable: 2 sec to 99 seconds.
Detector:	
Type:	T-1190 2" diameter (5cm) ``pancake GM" tube.
Plateaus:	150V <10% / 100V
Window Diameter:	1 3/4"; 4.5 cm. Area 16 cm ²
Window Thickness:	1.5 mg/cm ²
Dead Time:	70 μ sec Max
Quench Gas:	Halogen for long life.
Background:	Typical 50 cpm. Thin profile of tube (13mm) gives low background.
Efficiency:	100% for all Betas & Alphas with sufficient energy to penetrate thin window.
Temperature:	-10°C to +50°C with high quality batteries.
Calibration:	Single master calibration pot and programmable calibration factor.
Beta Efficiency:	C-14 > 6%, Sr-90/Y-90 > 25% 4 pi.
Speaker:	Built-in Audible Click for detector pulse, on-off Volume switch on panel.
Pulse-count:	Green LED.
Alarm:	Settable over entire instrument range.
Warning:	Red LED.
Power:	6 ``AA" cells.
Battery Life:	100 hours in normal operation (Greater with Li or NiMH Battery).

WEIGHT & DIMENSIONS:

Dimensions:	3" w (7.6 cm) x 5 1/4" long (13.3 cm) x 2 1/2" high (6 cm) (excluding probe and handle).
Weight:	
Electronics Only:	22 oz. (625 gm).
Total Weight:	Including separable pancake probe 34oz. (0.97 kg).

OPTION: Serial Port: Allows real time data logging to portable PC.



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