

# 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 T-1190 GM 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  $\mu$  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.



**TECHNICAL ASSOCIATES**

**OVERHOFF TECHNOLOGY**

7051 Eton Ave., Canoga Park, CA 91303

818-883-7043 (Phone) ~ 818-883-6103 (Fax) ~ 818-836-0381 (Cell)

[sales@usnuclearcorp.com](mailto:sales@usnuclearcorp.com)

Divisions of  US NUCLEAR CORP

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[WWW.TECH-ASSOCIATES.COM](http://WWW.TECH-ASSOCIATES.COM)

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## SPECIFICATIONS:

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

## WEIGHT & DIMENSIONS:

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

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



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