

# MICRO-TBM

## Micro-R-Meter

Model ~ TBM-6U-SV

### FEATURES:

- GAMMA DETECTOR
- SENSITIVE – 0.001 $\mu$ Sv/h per division
- ENGINEERING UNITS – Sv  
**OPTIONAL** – mR/h
- SMALL - TBM - SIZE – 1.3 Kg
- NaI(Tl) EXTRA SENSITIVE CRYSTAL
- RUGGED, SPLASH PROOF
- WIDE COVERAGE•
- ADDITIONAL PROBE CAPABILITY,  
SWITCH SELECTABLE•
- ONE INSTRUMENT WITH ADDED  
PROBES TO DO MOST JOBS
- LIGHTWEIGHT – 2.3 Kg
- **IP64**
- **CE MARK**



### APPLICATION:

Use for Low Range Gamma & High Beta  
Micro-R-Meter

### DESCRIPTION:

The **TBM-6U-SV Micro-Meter**

- Highly Sensitive
- Internally mounted sensitive scintillation detector.
- The lower limit of detection (95% confidence level) is 0.007  $\mu$ Sv/h
- One division on the meter registers 0.001 Sv/h.
- An LED flash as well as a beep for each count makes for easier use in dark areas.
- Audible and LED visual counts are a sub-multiple of the actual radiations recorded to allow differentiation at high counting rates.
- A BNC connector is provided for addition of an external probe.
- Internal and external probe circuits are switch selectable and calibrate independently.



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Divisions of



US NUCLEAR CORP

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### Model ~ TBM-6U-SV

#### SPECIFICATIONS:

<b>Meter:</b>	Rugged recessed 2.5" meter.
<b>Overall Range:</b>	(0.001 $\mu$ Sv/h – 50 $\mu$ Sv/h)
<b>Lower Limit:</b>	0.007 $\mu$ Sv/h (95% confidence level)
<b>Ranges:</b>	4 linear ranges: 0-0.25; .5; 5; 50 $\mu$ Sv/h for internal detector.
<b>Range Switch Positions:</b>	Off, Battery Test, 5K, 500, 50, 25 $\mu$ R/h or 50,5,0.5, 0.25 $\mu$ Sv/h.
<b>Detector Switch (Toggle):</b>	Internal detector/Front Panel BNC Jack.
<b>Time Constant Switch:</b>	Fast, Slow (approx. 2 & 11 sec.).
<b>Adjustable Indicator (Alarm):</b>	Piezoelectric audio & flashing LED (red for internal scintillator probe).
<b>Detector:</b>	Internal: Scintillation including crystal 1" diameter NaI(Tl).
<b>Calibration:</b>	Single master Cal Pot for each detector plus individual Cal Pot for each scale. Pots adjustable from outside case.
<b>Accuracy:</b>	+/- 10%
<b>Energy Response:</b>	+/- 30%, 80 KeV to 1.3 MeV
<b>Linearity:</b>	+/- 10% above 1 $\mu$ Sv/h
<b>High Voltage:</b>	Independent internal adjust for each detector.

#### POWER:

<b>Power:</b>	9 V battery
<b>Battery life:</b>	100 hours normal operation.

#### DIMENSIONS & WEIGHT:

<b>Dimensions:</b>	3" (7.6cm) W x 5-1/4" (13.3cm) L x 3-1/8" (8cm) Deep.
<b>Total Weight:</b>	1.3 Kg (including internal probe & battery).



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