

# SURFACE MONITOR/SEARCH TOOL

Model # TBM-6SP-ST

## FEATURES:

- TWO SEPARATE DETECTORS:  
EXTERNAL - SCINTILLATOR 1" x 1" NaI(Tl)  
INTERNAL - PANCAKE GEIGER
- LIGHTWEIGHT - FITS IN YOUR BRIEFCASE



**DESCRIPTION:** The **TBM-6SP-ST** features an internally mounted 2 inch pancake GM detector with window looking downward from bottom of case and an External Model PGS-3 1" x 1" scintillation probe for use as a Gamma Search Tool and  $\mu$  R Meter. A sliding shield protects pancake detector when not in use. This system is half the weight of other systems.

## SPECIFICATIONS:

- Meter:** Rugged, recessed 2-1/2" meter.
- Range Switch Positions:** Off; Battery Test; X1; X10; X100; X1,000.
- Ranges:** 4 linear ranges for each detector: 0-500; 5,000; 50,000; 500,000 cpm for external and 0-0.15; 1.5; 15; 150 mR/hr. for internal detector. Other scales and overlays available: Sieverts, etc.
- Detector Switch (Toggle):** Internal (pancake), External (scintillator)
- Time Constant Switch:** Fast, Slow (approx. 2 & 11 sec.)
- Detectors:** 2" O.D. Pancake Geiger for internal and PGS-3 1" diameter by 1" thick crystal scintillation probe with 40" removable cable for external. NaI(Tl) crystal standard. **Optional** BGO crystal .
- Efficiency:**

BETA Pancake	C <sup>14</sup>	40%	P <sup>32</sup>	98%	Exclusive of any geometry factor
GAMMA	I <sup>131</sup>	77%	Co <sup>60</sup>	38%	Exclusive of any geometry factor
Scintillation	Tc <sup>99m</sup>	99%	Cs <sup>137</sup>	50%	Exclusive of any geometry factor

- Calibration:** Single master Cal Pot for each detector, plus individual Cal Pot for each scale.  
Pots adjust from outside case.
- Power:** 9V Transistor battery (Eveready E1220 or equivalent). Battery life - 100 hrs. norm. operation.
- Dimensions:** 3" (7.6cm) w x 5-1/4" (13.3cm) lg x 2-1/4" (6cm) deep. (7.6 cm x 13.3 cm x 6 cm). Excl. External Probe.
- Total Weight:** 2.5 lbs. (including probe and battery)
- Shipping Weight:** 4.4 lbs.

**TA** TECHNICAL ASSOCIATES

7051 ETON AVENUE, CANOGA PARK, CA 91303  
TELEPHONE (818) 883-7043 · FAX (818) 883-6103  
e-mail: tagold@nrc.net · www.tech-associates.com