SURFACE CONTAMINATION MONITOR
Model Series ~ TBM-3
Model TBM-3 ~ Model TBM-3S ~ Model TBM-3SR

FEATURES:

- SENSITIVE TO ALPHA, BETA & GAMMA
- ANALOG
- ONE HAND OPERATION
- BUILT-IN SPEAKER
- ANTI SATURATION CIRCUITS
- LARGE 2” PANCAKE DETECTOR
- BETA SHIELD WINDOW PROTECTION (TBM-3SR Only)
- CE MARK

APPLICATION:

Its small size, lightweight, one-hand operation, & large detector area make this a very useful monitor for surveying bench tops or checking hands, clothes, & fingertips for almost any radioactive contamination.

Excellent for Fire Department, Ambulance, Police, First Response, & U.S. Custom Personnel use for surveying people, cars, luggage, surface of rooms, etc...

EXPERTS RECOMMEND TBM-3SR FOR FIRE DEPARTMENT USE ON EVERY FIRE ENGINE.

DESCRIPTION:

The TBM-3 Series are small three range Ratemeters with built-in 2” diameter pancake tube and speaker.

Display window is recessed for greater durability.

- Reads out in counts per minute (and mR/h).
- TBM-3 has recessed window with a sturdy grill on the back to protect the GM tube window.
- TBM-3S has recessed window with a sturdy grill on the back to protect the thin GM tube window.
- TBM-3SR has sliding methacrylate Beta shield in addition to the sturdy grill to protect the thin GM tube window.
- Sees Alpha, Beta, and Gamma radiation.
- Anti-saturation circuit will not fall below full scale high fields.
- Tested to 100 R/h.

TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY
7051 Eton Ave., Canoga Park, CA 91303
818-883-7043 (Phone) 818-883-6103 (Fax)
tagold@nwc.net WWW.TECH-ASSOCIATES.COM
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SPECIFICATIONS:

Meter:
- **TBM-3**: 2-1/2" Rectangle.
- **TBM-3S & TBM-3SR**: 2-1/2" Ruggedized.

Ranges: 3 ranges, linear: 0-500; 0-5,000; 0-50,000 cpm (0-15; 1.5; 15 mR/h).*

Switch Positions: Off, Battery Test, X100, X10, X1.

Audio:
- **TBM-3**: Internally Mounted Speaker.
- **TBM-3S & TBM-3SR**: Sonalert with Volume Control.

Detector: T-1190 "pancake GM tube".

Diameter: 2"; 5cm.

Window Diameter: 1-3/4'"; 4.5 cm.

Window Thickness: 1.5 mg/cm².

Quench Gas: Halogen for long life.

Background: Typical 50 cpm. Thin Profile of tube (13mm) gives low background.

Efficiency: 100% for all Betas & Alphas that have the energy to penetrate the thin window. **Gamma** sensitivity nominal is 3 cpm/µ R/h (based on Cs 137).

WEIGHT & DIMENSIONS:

Dimensions: 3" Wide x 5-1/4" Long x 2-1/4" High. (7.6 cm x 13.3 cm x 6 cm)
Excluding meter and handle.

**Beta Shield**: **TBM-3SR Model Only**: Methacrylate 0.125", 3.1 mm.

Calibration: Single master calibration pot as well as individual cal pots for each range.

Power: 9 volt "transistor" battery; Eveready 1222, or equivalent.

Battery Life: 100 hours in normal operation.

Handle: Swivel type, polished anodized aluminum.

*(Optional Detachable Handle **TBM-3SR (DL)** Upon Request.)*

Weight: 22 oz; 625 gm

OPTIONS:

Optional Read Out Units: c/s, µ Sv/hr meter scale (SI Units).

See "Beta Pancake Response" specification (BETA PANCAKE RESPONSE).

**Fire Fighters: TBM-3SR** is available with the Background x 10 meter, replacing the mR/hour or a single Counts Per Minute Scale or mR/hr Scale. (Upon Request)