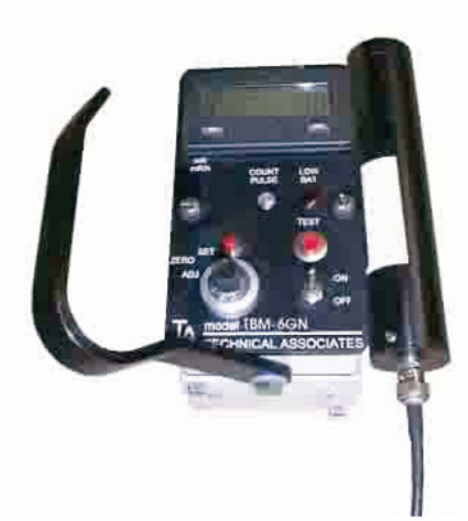
RAD SAFETY WATER MONITOR

Model # MEDA-SP

FEATURES:

- TWO SEPARATE DETECTORS
- SUBMERSIBLE GAMMA DETECTOR
- T-1190 ALPHA, BETA DETECTOR
- LIGHTWEIGHT – FITS IN BRIEFCASE



APPLICATION:

- Roadside Chemical Spill
- Industrial Accident
- Terrorist Water Poisoning
- Dumping of Medical/Industrial Waste

SITE LOCATION:

- Use MEDA-SP **ANYWHERE**

GENERAL DESCRIPTION: The MEDA-SP RATEMETER features an internally mounted 2 inch pancake GM detector with window looking downward from bottom of case and an external crystal scintillation probe for detection of low energy gammas. A sliding shield protects pancake detector when not in use. This system is half the weight of other systems.

MEASURMENT CAPABILITIES:

- Gamma emitters , submersible sensor probes for reservoir, stream or sump.
- Alpha and beta emitters in water samples
- Quick determination of water contamination
- Easy detection of surface contamination-alpha, beta, gamma; hands, boots, clothing, equipment
- Identify personnel needing decontamination
- Search out stored radioactive materials or dirty bombs using gamma probe

SPECIFICATIONS:

- **Meter:** Rugged, recessed 2-1/2" meter.
- **Ranges:** 4 linear for each detector:
  - 0-500; 5,000; 50,000; 500,000 cpm for external
  - 0-0.15; 1.5; 15; 150 mR/hr. for internal detector.
  - Other scales and overlays available: Sieverts, etc.
- **Range Switch Positions:** Off; Battery Test; X1; X10; X100; X1,000.
- **Detector Switch (Toggle):** Internal (pancake), External (scintillator) PGS-3SUB
- **Time Constant Switch:** Fast, Slow (approx. 2 & 11 sec.)

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SPECIFICATIONS:

- **Detectors:**
  - 2" O.D. Pancake Geiger for internal Alpha/beta emitters.
  - Submersible, high sensitivity gamma scintillation probe 1"x1"Nal (Tl) crystal standard.
  - 2"x2" crystal ***optional.***
- **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 with normal operation.
- **Dimensions:** 3" (7.6cm) wide x 5-1/4" (13.3cm) long x2-1/4" (6cm) deep.
- **Total Weight:** 2.5 lbs. (including probe and battery)
- **Shipping Weight:** 4.4 lbs.

ACCESSORIES INCLUDE:

- **EVAP-SP:** Sample evaporator with vehicle adaptor.
- **PAN-AL:** Disposable aluminum planchets for sample evaporation.

OPTIONS:

- **PAN-SP:** Re-usable planchets.
- **PGS-3LSUB**: 2"x2" crystal probe.
- **BAZ-EVAP**: Battery for evaporation process.
- **STB-3**: Shielded pancake tube detector for enhanced alpha beta sensitivity.

DESCRIPTION OF USE:

1. **Arrive at location of accident or attack**
   - Throw gamma sensor into reservoir, stream or sump.
   - Increasing count rate indicates contamination by gamma emitters.

2.Use PAN-AL (disposable planchet)

- Place sample of suspect water in evaporator (EVAP) for one minute
- Place sample under built-in pancake detector on bottom of ratemeter
- Increased count rate indicates contamination with alpha or beta emitters

3. ***If count rate exceeds 2 times background, water is not safe.***
4. **Use built-in pancake GM detector on bottom of ratemeter to check people, clothing and objects for surface contamination.**
5. **If count rate exceeds 2 times background, the person should take off the contaminated clothing. If count rate continues to exceed 2 times the background, hose them down and measure again.**
6. **Gamma probe count rate will increase as you approach a cache of radioactive materials. Knowing this you can search a car or check-out suspicious objects.**

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MEDA-SP DETECTORS

	Internal Detector	External Detector
Radiation Detected	Alpha, Beta, Low energy Gamma	Gamma
Sensor Size	2" dia x 1/2" thick	1" dia x 1" thick
Model	T-1190 Geiger tube	PGS-3SUB scintillator
Window	Mica 1.5 mg/cm^2	0.06" anodized aluminum
Optional	Alpha filter Shielded STB-3 detector	
Use/Method	Detects residue after quick evaporation of water in sample planchet	Submerge detector in reservoir, stream, or sump
Mounting	Faces-downward from inside ratemeter case	Clips onto side of instrument
	Radiation Detected T-1190	
No filter	**1)** Alpha, Beta, Low energy Gamma	
Optional-Alpha filter	**2)** Beta, Low Energy Gamma	
Optional-Beta filter	**3)** Higher energy Gamma, Background radiation	
Formula	Net Alpha **=1-2**	
Formula	Net Beta **=2-3**	
Formula	Gross Counts **=1**	

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