

RAD Safety Water Monitor

Model # MEDA-SP

FEATURES:

- TWO SEPARATE DETECTORS
- SUBMERSIBLE GAMMA DETECTOR
- ENHANCED RESPONSE FOR RADIATION FROM 5 KeV TO 250 KeV (optional BGO)
- PANCAKE GEIGER OPERATION INTERNAL
- LIGHTWEIGHT - FITS IN YOUR BRIEFCASE



MEDA-SP

APPLICATION:

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

SITE LOCATION:

- Use MEDA-SP Anywhere

MEASUREMENT 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 and equipment
- Identify personnel needing decontamination
- Search out stored radioactive materials or dirty bombs using gamma probe

T_A TECHNICAL ASSOCIATES

7051 ETON AVENUE * CANOGA PARK, CA 91303

TELEPHONE (818) 883-7043 * FAX(818) 883-6103

\$Revision: 1.2 \$

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

To Separate Alphas, Betas, and Gammas

1. Built-in sliding beta filter is standard
2. Alpha filter is optional

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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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.

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 and 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.)
- **Detectors:** 2" O.D. Pancake Geiger for internal Alpha/beta, submersible, high sensitivity gamma scintillation probe 1"x1". Nal (Tl) crystal standard. 2"x2" crystal optional.
- **Efficiency:]**
- **OPTIONS:**
 - EVAP-SP: Sample evaporator with vehicle adaptor or battery.
 - PAN-AL: Disposable aluminum planchets for sample evaporation.
 - PAN-SP: Re-usable planchets.
 - PGS-3LSUB: 2"x2" crystal probe
 - STB-3: Shilded pancake tube detector for enhanced alpha beta sensitivity
 - **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) wide x 5-1/4" (13.3cm) long x 2-1/4" (6cm) deep.
 - **Total Weight:** 2.5 lbs. (including probe and battery)
 - **Shipping Weight:** 4.4 lbs.

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