BASIC RADIATION AIR MONITOR

Survey Meter • Wipe Counter • also Chem or Bio Aerosols

Model ~ AIR-TBM

FEATURES:

- ALPHA, BETA-GAMMA
- IDEAL FOR FIRST RESPONDERS
- REAL TIME
- PORTABLE
- ELECTRONICS – TBM-3SR-D
- EASY CHANGE FILTER
- AC PUMP AP-5020E
- **OPTIONAL**: BATTERY POWERED PUMP
- **OPTIONAL:** ALL AC OPERATION OR ALL BATTERY OPERATION

TBM-3SR-D

AC PUMP, HOSE & FILTER HOLDER

APPLICATION:

- **QUADRUPLE USE:**
  - **AIR MONITOR- RADIATION**
  - **WIPE COUNTER**
  - **SURFACE MONITOR**
  - **PERSONAL AIR SAMPLER**

TBM-3SR-D WITH BATTERY PUMP

DESCRIPTION:

The AIR-TBM-SP uses standard 57-70 mm filters in T/A's easy change, no leak filter, to trap any airborne radioactivity. The filter is under constant surveillance via pancake GM tube.

Air is drawn through the system by a continuous duty pump.

The unit is completely self-contained and portable. Room air is drawn in through the charcoal impregnated filter paper. Then through the pump and its 3 ft. exhaust hose that can be extended.

The AIR-TBM air sample filter holder from the AC pump can be connected to the TBM-3SR-D through a unique ``groove and track'' bracket on bottom of TBM-3SR-D. This provides attachment of the air sampler filter holder for read-out with the TBM-3SR-D. The TBM-3SR-D is itself a compact surface monitor and survey meter.

TA CBRN Real - Time Air & Water Specialists

TA **TECHNICAL ASSOCIATES** Divisions of US NUCLEAR CORP

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SPECIFICATIONS:

Measures: Airborne radioactivity including aerosol, particulate and gases excluding Noble Gases.

Sensitivity: Limit of sensitivity (99% confidence level) 1 nanoCi collected on filter paper.

TIME	SENSITIVITY
1 Hour	3×10^{-9} µCi/cc
24 Hours	1×10^{-10} µCi/cc
5 Days	2×10^{-11} µCi/cc

- 2×10^{-11} µCi/cc after 5 days with pump running or 1×10^{-10} µCi/cc after 24 hours
- 3×10^{-9} µCi/cc after pump runs for 1 hour.
- This level is below 2/10th of the NRC Title 10 limit for 40 Hr. exposure to most hazardous Beta and/or Gamma emitter.

Detector: 2" diameter. Thin window 1-3/4" x 1.5-2 mg/cm^2 pancake T-1190 GM detector

Background: Typically 25 cpm

Flow Rate: Calibrated at factory. See chart below. Positive displacement pump.

Filters: Pack of 50 filters, charcoal impregnated
Optional: Can use membrane, paper or glass fiber filters.

Case: Electronics housed in instrument-case, carrying handle included.

Electronics: **TBM-3SR-D** Digital Ratemeter.

Ranges: 0.01 to 100 mR/hr.

Meter Response Time: 2 seconds

Pump Power: AC. 115V, 50-60 Hz (230 V optional)
Optional: 6 AA batteries

Pump	Model #	Flow Rate	Weight
Battery Operated	MINI-AIR-15	4ft^3/hour (2 lpm)	1 lb
AC Operated	**AP-5020E**	**0.5ft^3/minute**	**6 lb**

WEIGHT & DIMENSIONS:

Dimensions TBM-3SR-D: 3" W x 5" H x 6"D

Weight TBM-3SR-D: Electronics – 1.5 lbs

Dimensions AC Pump: 5" W x 7" H x 10"L (Fold Down Handle)

Weight AC Pump: **6** lbs

OPTIONS:

Inlet hose to allow monitoring of closed spaces.

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