



TBM-3SR-D

# Basic Radiation Air Monitor

Survey Meter, Wipe Counter, also Chem or Bio Aerosols

## Model - AIR-TBM



TBM-3SR-D with  
Battery Pum  
No Flow Meter



AC Pump, Hose  
and Filter Holder

WH-15 Filter  
and Holder

## Features

- Alpha, Beta-Gamma, X-Rays
- Ideal for First Responders
- Real Time
- Portable
- Electronics – TBM-3SR-D
  - » Battery Power
  - » Internal GM Pancake Detector
  - » **Optional:** Rechargeable Batteries With Charger
  - » **Optional:** Backlight
- AC Pump AP-5020E
  - » AC Operation
  - » Easy Change Filter'
  - » Flow Meter
  - » **Optional:** Battery Powered Pump
  - » No Flow Meter

## ApplicationDescription

### Quadruple Use:

- Air Monitor - Radiation
- Wipe Counter
- Surface Monitor
- Personal Air Sampler

## Description

The AIR-TBM 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.



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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## Model - AIR-TBM

### 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	$3 \times 10^{-9}$ $\mu\text{Ci/cc}$
24 Hours	$1 \times 10^{-10}$ $\mu\text{Ci/cc}$
5 Days	$2 \times 10^{-11}$ $\mu\text{Ci/cc}$

- »  $2 \times 10^{-11}$   $\mu\text{Ci/cc}$  after 5 days with pump running or  $1 \times 10^{-10}$   $\mu\text{Ci/cc}$  after 24 hours
- »  $3 \times 10^{-9}$   $\mu\text{Ci/cc}$  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<sup>2</sup> pancake T-1190 GM detector

**Energy Range:** 50KeV to 2 MeV

**Accuracy:**  $\pm 20\%$

**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 No Flow Meter	MINI-AIR-15	4ft <sup>3</sup> /hour (2 lpm)	1 lb
AC Operated	AP-5020E	0.5ft <sup>3</sup> /minute (15 lpm)	6 lb

### Weight and 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. Rechargeable Batteries and Charger for TBM-3SR-D



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