

# BASIC RADIATION AIR MONITOR

Survey Meter • Wipe Counter • also Chem or Bio Aerosols

## AIR-TBM SERIES

Model ~ AIR-TBM-B ~ AIR-TBM-AC

### FEATURES:

- ALPHA, BETA-GAMMA, X-RAYS
- IDEAL FOR FIRST RESPONDERS
- REAL TIME
- PORTABLE

**AIR-TBM-B – ALL BATTERY POWER**

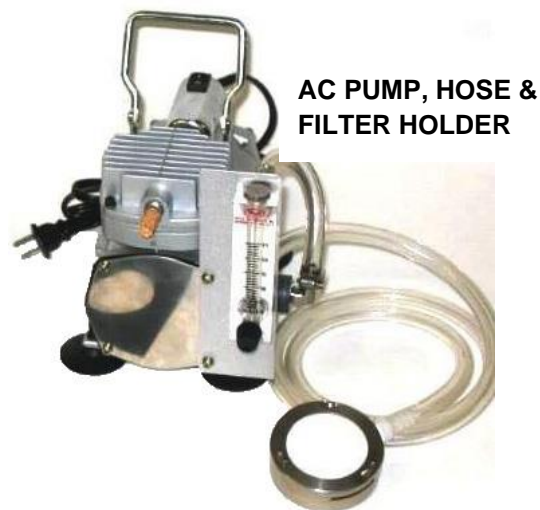
**AIR-TBM-AC – ALL AC POWER**

### 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:** RECHARGEABLE BATTERIES WITH CHARGER
- **OPTIONAL:** NO FLOW METER



### APPLICATION:

#### • QUADRUPLE USE:

- AIR MONITOR - RADIATION
- WIPE COUNTER
- SURFACE MONITOR
- PERSONAL AIR SAMPLER



WH-15 FILTER & HOLDER & HOSE



TECHNICAL ASSOCIATES

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### 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.

### 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. Internal 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:** ±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.

**Digital Display:** Large 6-digit LCD for Dose Rate

8-Digit LCD for Integrated Modes

Eliminates the need for a Range Switch, and Auto Range

**Decades:** 4 decades

**Ranges:** 0.01 to 100.00 mR/h (0.1μSv/h to 1.0 mSv/h)

**Ranges:**  $1 \times 10^{-10} \mu\text{Ci/cc}$



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**Accuracy:** ±10%  
**Switch Positions:** On/Off Toggle, Rate to Integrate Button, Program Button  
**Battery Test Switch:** Toggle  
**Battery:** (6) AA cells – Easy change, snap-in battery holder  
**Battery Life:** Approximately 100 hours in normal use  
**Detector:** 2" T-1190 "pancake GM tube  
**Meter Response Time:** 2 seconds  
**Operating Temp:** -35° C to 75° C  
**Humidity:** 95% Non-Condensing

### WEIGHT & DIMENSIONS:

#### TBM-3SR-D Electronics

**Dimensions:** 3" Wide x 5-3/8" Long x 3-1/2" High.  
Excluding knobs and handle. (7.6 cm x 13.6 cm x 8.9 cm)  
**Beta Shield:** Methacrylate 0.125", 3.1mm.  
**Weight:** 1 lb. (0.45 kg)

**PUMP POWER:** AC. 115V, 50-60 Hz (230 V optional)

Pump	Model #	Flow Rate	Weight
Battery Operated No Flow Meter	MINI-AIR-15	4ft <sup>3</sup> /hour (2 lpm)	1 lb. (0.45 kg)
AC Operated	AP-5020E	0.5ft <sup>3</sup> /minute (15 lpm)	6 lb. (2.7 kg)

### WEIGHT & DIMENSIONS:

#### AC PUMP

**Dimensions AC Pump:** 5" W x 7" H x 10"L (12.7 cm x 17.8 cm x 25.4 cm (Fold Down Handle)  
**Weight AC Pump:** 6 lbs. (2.7 kg)

#### SYSTEM OPTIONS:

Inlet hose to allow monitoring of closed spaces.

Rechargeable Batteries and Charger for TBM-3SR-D and/or pump



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