

**AIR MONITOR  
SURVEY METER/WIPE COUNTER  
Model # AIR-TBM  
ECONOMICAL, PORTABLE: Air Monitor • Survey Meter • Wipe Counter**

**FEATURES:**

- ALPHA, BETA-GAMMA
- TRIPLE USE:**
  - **AIR MONITOR**
  - **WIPE COUNTER**
  - **SURFACE MONITOR**
- REAL TIME
- LINE OPERATED PUMP  
(BATTERY PACK **OPTIONAL**)
- PORTABLE
- INTEGRATED EXPOSURE
- STANDARD **TBM-3A** RATEMETER
- DRAWS AIR FROM ROOM
- EASY CHANGE FILTER
- SLIDE-ON WIPE-HOLDER



**AIR MONITOR:** Model **AIR-TBM** is used to monitor alpha, beta and gamma from radioactive chemicals in the air be they gas, aerosol or particulate. The **AIR-TBM** is an ideal device to assure safety against airborne radioactive contamination by means of constant collection and monitoring capability. It provides integrated exposure information and provides real time readout. It is a complete system but may be expanded per need.

**PRINCIPAL OF OPERATION:** Air is pulled thru a charcoal impregnated filter paper by a pump. This filter is constantly observed by a 2" diameter thin window GM tube and ratemeter.

**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 which can be extended. Wipe holder WH-15 accepts wipes from 1" diameter up to 2" diameter.

A unique ``groove and track" system allows the air sampler (Model# **AS-I5**) and wipe holder (Model# **WH-15**) to be separated from the detector/ratemeter (Model# **TBM-3A**). The **TBM-3A** is itself a compact surface monitor and survey meter. The **AS-I5** can be left with the pump turned on, so collection of air pollutants is not interrupted.

**TA** TECHNICAL ASSOCIATES

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**SPECIFICATIONS:**

- Measures:** Airborne radioactivity including aerosol, particulate and gases - but excluding the noble gases.
- Sensitivity:** Limit of sensitivity (99% confidence level) one nanoCi collected on filter paper (as beta over 0.1 MeV). This is the integrated content of entire amount of air drawn through the system. This corresponds to  $2 \times 10^{-11}$   $\mu\text{Ci/cc}$  after 5 days with pump running or  $1 \times 10^{-10}$   $\mu\text{Ci/cc}$  after 24 hours or  $3 \times 10^{-9}$   $\mu\text{Ci/cc}$  after pump runs for 1 hour. This level is below 2/10th of the California Safety Code Title 17 (and NRC Title 10) limit for 40 Hr. exposure to most hazardous beta and/or gamma emitter in absence of AC 227.
- Detector:** 2" diameter. Thin window 1-3/4" x 1.5-2 mg/cm<sup>2</sup> pancake GM detector, Model T-1190
- Background:** Typically 25 cpm
- Flow Rate:** Calibrated at factory. Typically 5 liter/min.
- Filters:** Includes package of fifty filters, charcoal impregnated #4I, 70mm. Can use membrane, paper or glass fiber filters.
- Case:** Electronics housed in instrument-case, carrying handle included.
- Dimensions:** Excluding Pump: 3" W x 5" H x 6"D
- Shipping Weight:** Depends on pump ordered.
- Electronics:** TBM-3A Ratemeter.
- Ranges:** 0-500, 5k, 50k cpm. 0-0.2, 2, 20 mR/hr.
- Meter Response Time:** 2 seconds
- Meter:** 2.5 in. taut band, 2%
- Pump Power:** 115V, 50-60 Hz (230 V optional) battery pack is optional.
- Options:**
  - Pulse output,
  - Recorder output,
  - Flow regulator,
  - Flow meter,
  - \* Large pump
  - \* Extended Life Pump
  - \* Unit fitted with inlet hose to allow monitoring of hoods

Pump	Model #	Flow Rate	Weight
Battery Operated	AP-B4	4 ft <sup>3</sup> /hour	1 lb
AC Operated	AP-5020E	0.5 ft <sup>3</sup> /minute	6 lb
AC Operated	AP-5030E	1 ft <sup>3</sup> /minute	12 lb
AC Operated	AP-5040E	2 ft <sup>3</sup> /minute	14 lb

Additional pumps available, please call with specifications

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