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

APPLICATION:
- 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.
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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.

<table>
<thead>
<tr>
<th>TIME</th>
<th>SENSITIVITY</th>
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<tbody>
<tr>
<td>1 Hour</td>
<td>$3 \times 10^3 \mu Ci/cc$</td>
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<tr>
<td>24 Hours</td>
<td>$1 \times 10^{-10} \mu Ci/cc$</td>
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<tr>
<td>5 Days</td>
<td>$2 \times 10^{-11} \mu Ci/cc$</td>
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- $2 \times 10^{11} \mu Ci/cc$ after 5 days with pump running or $1 \times 10^{-10} \mu Ci/cc$ after 24 hours
- $3 \times 10^{-9} \mu Ci/cc$ 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/cm² 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

<table>
<thead>
<tr>
<th>Pump</th>
<th>Model #</th>
<th>Flow Rate</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Battery Operated</td>
<td>MINI-AIR-15</td>
<td>4 ft³/hour (2 lpm)</td>
<td>1 lb</td>
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<tr>
<td>AC Operated</td>
<td>AP-5020E</td>
<td>0.5 ft³/minute (15 lpm)</td>
<td>6 lb</td>
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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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