

**PERSONAL AIR SAMPLER
&
RADIATION DETECTOR**
Model # Little Bro- MINI-AIR RAD Total Airborne Activity
Model# -Big Bro- MINI-AIR Sampler for all Airborne Hazards

MINI-AIR-SAMPLER "BIG BRO"

FEATURES:

- DETECTS 6×10^{-8} $\mu\text{Ci/cc}$ in 30 minutes
- BATTERY OPERATED
- INTEGRATED EXPOSURE
- READS DIRECTLY IN Cts/Sec or $\mu\text{Ci/cc}$
- CAN DRAW AIR FROM ROOM OR BREATHING ZONE
- QUICK CHANGE FILTER
- OPTIONAL SNIFFER HOSE
- OPTIONAL: RS-232 COMPUTER AND/OR DATALOGGER INTERFACE



APPLICATION: The Mini-Air Series Air Monitor assures Safety against airborne radioactivity contamination by means of constant monitoring check. Optional alarm and record capability. It provides integrated exposure information. The MINI-AIR Series is sensitive and versatile. Although designed as an industrial workplace and hospital breathing air measurement system, it may also be used to monitor fume hoods and stack effluent.

DESCRIPTION: The MINI-AIR Series uses standard or charcoal filters in TA's unique quick change, no leak holders to trap any airborne radio-nuclides. The filter is under constant surveillance via a GM detector. Air is drawn by a high volume pump through the filter and exhausted to the room or through an optional hose. An Inlet and outlet hose may be attached to allow monitoring of hoods, glove boxes, stacks, etc. Time is controlled by a rocker switch wired into the pump circuit. The unit is completely self-contained and portable. Complete with 10 charcoal and 100 glass fiber filter disks.

Figure 1: MINI-AIR-RAD



Figure 2: TBM-3D

TA TECHNICAL ASSOCIATES

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PERSONAL AIR SAMPLER & RADIATION ALARM

Model # MINI-AIR Total Airborne Activity

Model# MINI-AIR Sampler

SPECIFICATIONS:

- Electronics:** TBM-3D Programable Digital Ratemeter
- Pump:** Miniature 2 Liter/min Pump and Filter holder.
- Power:** Standard 9V (and (6) AA Batteries in TBM-3D).
- Range:** 1×10^{-10} to $1 \times 10^{-5} \mu\text{Ci/cc}$ (or Ci/m^3) (Depends on count time)
- Readout:** 6 Digit LCD - TBM-3D.
- Flow Rate:** 2 liters/min
- Filters:** Includes package of 100 glass Fiber and 10 charcoal filter papers. (Can also use membrane filters.)
- Case:** Electronics housed in enameled aluminum housing; handle included.
- Dimensions: Air Sampler Dimensions**
 Including pump and detector assembly: 1.75" diameter x 8.5" L.
 Including Scaler TBM-3D; 3" W x 4" L x 5.5" H excluding handle.
- Shipping Weight:** 6 lbs.
- Options:**
 A variety of sensitive detectors for non-radiation hazards such as Smoke & Fumes from Diesel or Cigaretts, as well as Biological and Chemical Threats and Toxins.- Call for Details

Model:	MINI-AIR-RAD	MINI-AIR
Has Belt Clip:	Yes	Yes
Detector:	T-1210 GM Tube	External
Size/Material:	1" dia. Pancake	
Window:	Mica 1.5 - 2.0 mg/cm ²	
Detector: Radiation	Beta, Gamma	STB-3 (External)
Biological Hazards; Chemical Hazards	Optional Optional	Optional Optional
Iodine:	Optional	Optional
Detects Particulates:	Yes	Yes
Detects Aerosol & Reactive Gases*:	Yes	Yes
Filter: Glass Fiber Charcoal Filter Paper- 1" dia	Yes Optional	Yes Optional
Iodine Sensitivity: (30 min)	$5 \times 10^{-8} \mu\text{Ci/cc}$	
Public Release: ($1 \times 10^{-10} \mu\text{Ci/cc}$)	10 Hour exposure	
Weights:		
Electronics:	2 lbs	See Choices
Detector + Filter Holder:	1 lbs	1 lbs
Pump:	Included	Included
RAD Shielding:	Optional	None
*Detects all airborne activity except Noble Gases, H-3, Fe-55	Yes	N/A
Electronics:	TBM-3D	See Options

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PERSONAL AIR SAMPLER & RADIATION ALARM

Model # MINI-AIR Total Airborne Activity

Model# MINI-AIR Sampler

Easy Procedure for Use:

Flow-rate has been preset (user can change those if desired).

1. Turn on Ratemeter or Scaler.
2. Put in clean filter.
3. Make Test Count (pump Off).
4. Detach sampler and clip it to your belt.
5. Check Pump Battery.
6. Turn on Pump.
7. At end of job or workshift, Reattach Ratemeter.
8. Digital display reads out directly in counts per second, or in uCi trapped in the filter (for a single isotope of interest with known conversion factor).
 - A. Filter must be clean at start of each new air sample.
 - B. User can change readout units.

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