

Personal Air Sampler and Radiation Alarm

Model: MINI-AIR Sampler for all Airborne Hazards “Little Bro”

Model: MINI-AIR-RAD Total Airborne Activity “Big Bro”

Features: “Little Bro” and “Big Bro”

- Real-time Air Flow Meter
- Collection of Alpha, Beta, Gamma Particulates
- Flow Rate 3 LPM
- Battery Operated – Rechargeable Batteries OK
- Integrated Exposure
- Can Draw Air From Room or Breathing Zone
- Quick Change Filter
- **Optional:** Battery Charger
- **IP65**

Features: “Little Bro”

- Collects Diverse Air Borne Contamination
- Multiple Specialized Filter Media Including Tritium Trap is Acceptable

Features: “Big Bro” PLUS TBM-3D”

- Detects Most Nuclides Including Organic C-14
- GM 1" Thin Window Detector
- Electronics – TBM-3D
- Detects 6×10^{-8} $\mu\text{Ci/cc}$ in 30 Minutes
- Reads Directly in cps or μCi
- **Optional:** Sniffer Hose – 3 Feet
- **Optional:** RS-232 Computer and/or Data Archive, Retrieval, Display Interface
- **Optional:** Alarm
- **CE Mark**



TBM-3D and
“Big Bro”
Together
Mini Air-RAD
Sampler System



Application

The **MINI-AIR Series Air Monitors** assure safety against airborne radioactivity contamination by means of constant monitoring check. 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.

Mini-Air-RAD Option: Alarm and record capability.



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DIVISIONS OF



US NUCLEAR CORP

TICKER UCLE

Personal Air Sampler and Radiation Alarm

Model: MINI-AIR Sampler for all Airborne Hazards “Little Bro”

Model: MINI-AIR-RAD Total Airborne Activity “Big Bro”

Description: Mini-Air-RAD “Big Bro”

- **The MINI-AIR-RAD System** 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.
- Power is controlled by a rocker switch.
- 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.

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- Complete with 10 charcoal and 100 glass fiber filter disks.

Note:

The Mini-Air “Little Bro” is capable of collecting diverse airborne contaminants such as Smoke and Fumes from Diesel or Cigarettes, as well as Biological and Chemical Threats and Toxins including Radiation.

The Mini-Air is versatile and the user may use specialized filter media for specific airborne contaminants.



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Model ~ MINI-AIR-RAD Total Airborne Activity – “Big Bro”

Specifications: Mini-Air-RAD “Big Bro”

Electronics:	TBM-3D Programmable Digital Rate meter
Air Flow Pump:	Miniature 1-3 Liter/min Pump and Filter holder
Air Flow Pump Power:	(6) AA Batteries - Rechargeable Batteries OK
Electronics Power:	TBM-3D - (6) AA Batteries - Rechargeable Batteries OK
Range:	1 x 10 ⁻¹⁰ to 1 x 10 ⁻⁵ µCi/cc (or Ci/m ³) (depends on count time)
Readout:	6 Digit LCD - TBM-3D
Air Flow Meter:	Displays flow rate 0.5 – 3.0 LPM
Filters:	Includes package of 100 glass fiber and 10 charcoal filter papers (Can also use membrane filters)
Sniffer Hose:	3 Feet
Case:	Air Pump and Detector housed in polished blue aluminum
Electronics Case:	TBM-3D housed in green aluminum housing; handle included
Weight & Dimensions:	
Pump & Detector Assembly:	1.75" Diameter x 8.5" Long
Electronics:	TBM-3D: 3" W x 4" L x 5.5" H including handle
Electronics Weight:	1 lb 10 oz
Electronics, Pump, Detector Assembly Weight:	2 lbs 10 oz
OPTIONAL:	Adjustable Flow Rate: Variable from 0.5 to 3 LPM


NOTE: See Following Chart For Greater Detail.

Specifications: Mini-Air “Little Bro”

Air Flow Pump:	Miniature 1- 3 Liter/min Pump and Filter holder
Power:	(6) AA Batteries - Rechargeable Batteries OK
Air Flow Meter:	Displays flow rate 3.0 LPM
Filters:	Includes package of 100 glass fiber and 10 charcoal filter papers (Can also use membrane or specialty filters)
Sniffer Hose:	3 Feet
Case:	Air Pump and Filter Holder housed in polished blue aluminum
Weight & Dimensions:	
Air Sampler Dimensions:	1.75" Diameter x 9.5" Long
Weight:	1 lbs



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MODEL:	MINI-AIR-RAD “Big Bro”	MINI-AIR “Little Bro”
Has Belt Clip:	YES	YES
Detector:	T-1210 GM Tube	External
Size/Material:	1" dia. Pancake	N/A
Window:	Mica 1.5 - 2.0 mg/cm ²	N/A
Detector: Radiation	Alpha, Beta, Gamma	Optional External STB-3
Biological Hazards: Chemical Hazards:	User Specific Filter User Specific Filter	User Specific Filter User Specific Filter
Iodine:	Carbon Filter	Carbon Filter
Detects Particulates:	YES	YES
Detects Aerosol & Reactive Gases*:	YES	YES
Filter: Glass Fiber Charcoal Filter Paper- 1" dia	YES YES	YES YES
Iodine Sensitivity: (30 min)	5 x 10 ⁻⁸ µCi/cc	N/A
Public Release: (1 x 10 ⁻¹⁰ µCi/cc)	10 Hour exposure	N/A
WEIGHT:		
Mini-Air-RAD - Electronics:	2 lbs	Optional
Mini-Air-RAD - Air Pump & Detector & Filter Holder:	1 lbs	
Mini-Air - Air Pump & Filter Holder:		1 lbs
Air Pump:	Included	Included
RAD Shielding:	Optional	None
*Detects all airborne activity EXCEPT H-3, Fe-55 and Noble Gases	DETECTS YES	COLLECTS YES
Electronics:	TBM-3D	Optional



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Easy Use Procedure: Mini-Air-RAD “Big Bro”

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

1. Turn on Rate meter or Scaler.
2. Put in clean filter.
3. Make Test Count (Pump Off).
4. Detach sampler and clip it to your belt.
5. Turn on Pump.
6. At end of job or work shift, Reattach Rate meter.
7. 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).
8. Filter must be clean at start of each new air sample.
9. User can change scale factor in order to readout in different units.

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

1. Put in clean filter.
2. Clip it to your belt.
3. Turn on Pump.
4. Filter must be clean at start of each new air sample.



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