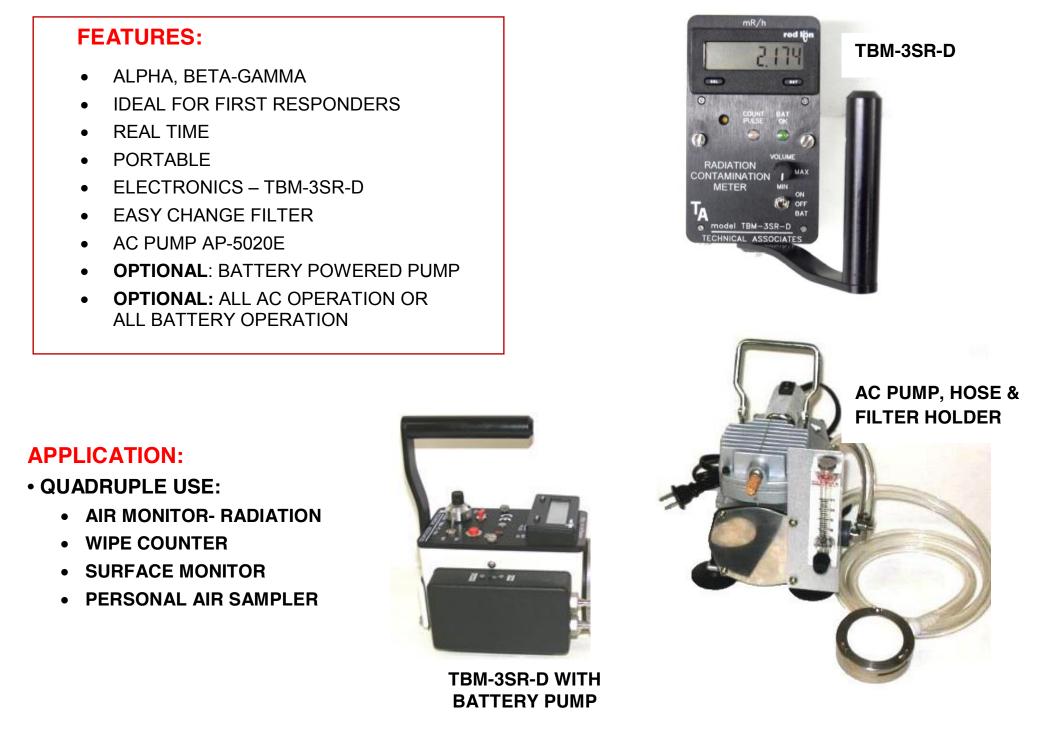
AIR-TBM - HANDHELD RADIATION AIR MONITOR

Survey Meter • Wipe Counter • also Chem or Bio Aerosols



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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BASIC PORTABLE RADIATION AIR MONITOR

Survey Meter • Wipe Counter • also Chem or Bio Aerosols

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 x 10 ⁻⁹ μCi/cc
24 Hours	1 x 10 ⁻¹⁰ µCi/cc
5 Days	2 x 10 ⁻¹¹ µCi/cc

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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/cm ² 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		

Meter Response Time: 2 seconds

Pump Power:AC. 115V, 50-60 Hz (230 V optional)OptionalOptional

Optional: 6 AA batteries

Pump	Model #	Flow Rate	Weight
Battery Operated	MINI-AIR-15	4ft ³ /hour (2 lpm)	1 lb
AC Operated	AP-5020E	0.5ft ³ /minute (15 lpm)	6 lb

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.

