



Tritium in Air Monitor

Bendix/Sandia Model T446



Please supply missing information.

<p>Class</p>	<p>Portable</p>
<p>Principle of Operation</p>	<p>Flow-through ionization chamber, output feeds vibrating-reed electrometer. Signal is amplified. Electrostatic precipitator at input.</p>
<p>Sensitivity and Range</p>	<p>Lower limit 5 pCi/cm³ of air; upper limit 10 μ Ci/cm³ of air. Seven-decade ranges.</p>
<p>Sampling</p>	<p>Continuous</p>
<p>Performance</p>	<p>Accuracy: Linearity $\pm 5\%$, maximum error $\pm 15\%$ of full scale on any range Temperature: 0° F to 135° F, with extended operation down to -40° F with NiCd batteries</p>
<p>Requirements</p>	<p>Power: 115 VAC, or 10 D cells (24-hour lifetime), or rechargeable NiCd F cells (35-hour lifetime) Size: 6.5" x 11.6" x 8.3" (16 x 29 x 22 cm) Weight: 20 to 25 lb (9 to 11 kg)</p>
<p>Features</p>	<ol style="list-style-type: none"> 1) Electronics all solid-state, on printed circuit boards 2) Electrostatic precipitator at input, and filter to eliminate ionizing aerosols 3) Nickel-63 source for self-contained calibration 4) Two adjustable alarm levels 5) Either portable (batteries) or stationary (AC power) 6) Fail-safe failure indicator 7) Automatic range changing
<p>References</p>	<ol style="list-style-type: none"> 1) Sandia Laboratories Report SC-M-68-245 2) Sandia Laboratories Report SC-M-67-244 3) R.P. Baker and R.D. Richards, "Reliable and Versatile Instrumentation for Detection of Tritium Hazards Designed for Military Application," available from Sandia Laboratories 4) H. Chew, Lawrence Livermore Laboratory, Livermore, California (private communication).
<p>Cost</p>	<p>\$5380, negotiable</p>



Remarks

- 1) Extremely versatile instrument with multitude of features.
- 2) Built by Bendix on contract for Sandia, available from Bendix on a contract basis only.
- 3) One user has praised the instrument highly: "very reliable, reproducible, holds calibration well" (Ref. 4).

Sandia Laboratories
Box 5900
Albuquerque, NM 87115
Attn: Robert P. Baker
(505) 264-8211

Bendix Corporation
Kansas City Division
Box 1159
Kansas City, MO 64141
Attn: John Fraser, V.H. Clabaugh
(816) 363-3211

Please supply missing information:
Address



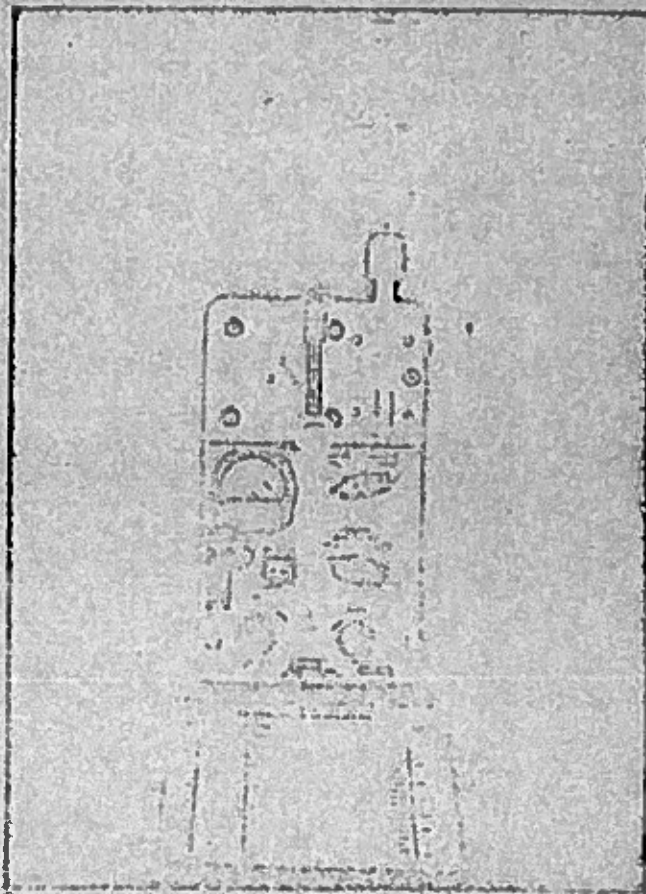
INSTRUMENTAL
FOR ENVIRONMENTAL
MONITORING

Manufactured by

RAD-SUC
Tritium in Urine
Bendix/Sandia
Sept. 1972

Tritium Urinalysis Monitor

Bendix/Sandia Model T449



T449 Urinalyzer Instrument with T446 Ion Chamber

URINALYSIS GAS GENERATION

CARTRIDGE CONFIGURATION





*Please supply
following information.*

Class	Portable	
Principle of Operation	Metallic calcium (disposable cartridge) reduces water in urine. Evolved hydrogen gas fills a sealed ionization chamber. For use with the T446 chamber (see separate note).	
Sensitivity and Range	Sensitivity: Down to 10,000 pCi/cm ³ of urine	
Sampling	20 cm ³ batch sampling; requires five minutes per sample.	
Performance	Accuracy: Maximum error ±15% of full scale, or ±10,000 pCi/cm ³ , whichever is greater Temperature: 35-135°F	
Requirements	Size: 9" x 10" x 14" (22 x 25 x 35 cm) Weight: 18 lbs (8 kg) including 12 cartridges Cartridge: 1.5" long, 7" diameter (37 x 17 cm)	
Features	1) For use with T446 ionization chamber (see note). 2) Useful in remote or emergency situations.	
References	1) Sandia Laboratories Report SC-M-68-245 2) Sandia Laboratories Report SC-M-67-244 3) R.P. Baker and K.O. Richards, "Reliable and Versatile Instrumentation for Detection of Tritium Hazard Designed for Military Applications," available from Sandia Laboratories	
Remarks	Built by Bendix on contract for Sandia, available from Bendix on a contract basis only	
Cost		
Remarks	Built by Bendix on contract for Sandia, available from Bendix on a contract basis only	
Address	Sandia Laboratories Box 5800 Albuquerque, NM 87115 Attn: [redacted]	Bendix Corporation Kansas City Division Box 1130 Kansas City, MO 64141 Attn: [redacted]

*Contract
note*



477-7383

1.00

7:00AM	8:13P
12:05	1:34
6:10PM	6:55

1.00 9/0

1.00 9/0

1. D/200 - dump
2. D/340 - mix room
3. Map 9/db
4. Average 90db } tool crib
5. Magnesium - thorium - has the information
6. D/851 D-26 & K-26 cold air

A. ~~_____~~
 B. Contact the powerhouse on Monday

7. Orientation - pouring of the PAPI - may need this next week.

~~Exercise sound judgment~~

~~Individual is developing into a~~

DATE	BY
MAX	
MIN	
AVC	

DO NOT REMOVE	
DATE	NO.
BY	
MAX	
MIN	
AVC	

6 per cord 35.00
 50
 6/300

~~NYLON (RESIN)~~

~~ANIAN CARBIDE~~

~~1929~~

~~LIVEREI Chlorinated Hydrocarbon
 Detector~~



~~FLUORON CAPTURE~~

~~10,000~~
~~1,000,000~~ 1.01
 100/1.00