

# RADON MONITOR

Model – PTG-9-RN

## FEATURES:

- 2 pCi/L (74 Bq/m<sup>3</sup>) in 5 min
- 30 pCi/L (1000 Bq/m<sup>3</sup>) in 30 sec
- DUAL BALANCED ION CHAMBERS
- USER<sub>3</sub> SETTABLE UNITS - PicoCi/ml or Bq/m<sup>3</sup> etc.
- OR TOTAL DAILY DOSE IN milliCuries or MBq etc.
- WIDE RANGE - DIGITAL ACCURACY
- PROGRAMMABLE DIGITAL READOUT
- SENSITIVE FOR OCCUPATIONAL EXPOSURE
- DYNAMIC BACKGROUND COMPENSATION
- PORTABLE
- CAN ACTUATE OPTIONAL DIGITAL PRINTER
- BATTERY OR AC OPERATION
- BUILT-IN HIGH LEVEL & LOW FLOW ALARM
- BUILT-IN RS-232 COMPUTER INTERFACE
- USE WITH PORTABLE PC AS 1 YEAR DATA BUFFER



## DESCRIPTION:

TA's PTG-9-RN Radon Monitor is a sensitive, rugged, portable instrument for detection and measurement of airborne radon. Its internal subtractive two balanced ion chambers electro-meter circuit decreases background effects to negligible levels and its deionized and filtered intake reduces to negligible levels spurious effects from smoke, dust and existing ionization in the air.

Inlet and outlet hoses allow monitoring interiors of fume hoods, exhaust stacks, etc. The PTG-9-A-RN will measure airborne radon as free Radon gas (with or without Radon Daughters at user's option) as low as 1 pCi/l.

All instruments are calibrated at the factory. Calibration check may be performed in the field with a microCurie level beta-gamma source. Chambers may be switched to additive operation to check linearity of response on a gamma calibration range. User friendly calibration controls are provided.



**TECHNICAL ASSOCIATES**

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### SPECIFICATIONS:

- **Ranges:** Large, easy to read digital LED readout. Two ranges cover six decades:  $2\text{pCi/L} - 2\mu\text{Ci/L}$   
( $74\text{Bq/m}^3$  to  $74\text{MBq/m}^3$ .) 4
- **Background:** Essentially eliminated by subtractive balanced chambers.
- **Smoke, Dust and Ion Elimination:** Filter and deionizer reduce effects to negligible level.
- **Circuit:** Electrometer circuit amplifies net difference between a two liter radon internal chamber and a sealed background chamber of similar configuration.
- **Alarms:** Low Air Flow / Alarm High Level Alarm: Red Lamps & Audio Alarm.
- **Controls:** Front Panel Off-On Range Switch Calibrate Switch. Alarm Set Button, Alarm Reset Button.
- **Calibration:** Internal calibration with Radon gas, or on a calibration course, or (at a single point) with optional Beta-Gamma source.
- **Printer:** DB-9 Plug is furnished for optional external serial printer.
- **Computer Port:** RS-232 serial port is built in (fully addressable).
- **Portability:** Carrying handle & optional loops for shoulder sling.
- **Case:** Deep drawn aluminum case, handle, gasket lid, easy clean anodized finish.

### DIMENSIONS:

- **Including handle:** 9" W x 13" L x 9" H
- **Front Panel:** 13" L x 9" W
- **Weight:** 12 lbs
- **Shipping weight:** 15 lbs

### ELECTRONICS

- **Battery:** 12V 7 A/hr rechargeable sealed. Panasonic LCR12V1 BPN or equivalent.
- **Battery Life:** 20 hours between changes. Built In Battery Charger.

### ACCESSORIES & OPTIONS:

- **RAL-3A:** Remote Alarm (audible & visual)  
Model #RAL-3A (including 25 ft. of cable). Can be used to 500
- **iServe-7:** ft. Built-in internet / Ethernet server.
- **HTR-7:** Heated Ion Chambers
- **WIN-W:** Win-Wedge data logging software for users portable
- **MPM-40DT:** PC. Serial Printer with date and time stamp.



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