RADON SWITCH

Model – RANDFAN-SX

FEATURES:

- THE RANDFAN-SX WILL TRIGGER RADON MITIGATION FANS, CLOSE OR OPEN AIR VENTS, AND/OR ALERT STAFF.
- DETECTS RADON & AUTOMATES RADON MITIGATION SYSTEM
- PROTECTS STAFF & CLIENTS
- SAVES ELECTRICITY
- RANGE: 0.1-600 pCi/L
- UNITS - PicoCi/L (PicoCurries per Liter).
- **OPTIONAL** - TOTAL DAILY DOSE
- PROGRAMMABLE DIGITAL READOUT
- **OPTIONAL:** REMOTE DATA DOWNLOAD – FM-9 ELECTRONICS
- AC OPERATION WITH BATTERY BACKUP
- INTERNAL DATA STORAGE
- BUILT-IN HIGH-LEVEL ALARM
- USE WITH PORTABLE PC AS 1 YEAR DATA BUFFER
- USER SETTABLE TRIP POINT
- AVAILABLE WITH BACNET COMPATIBLE COMMUNICATIONS
- **OPTIONAL: MULTI AREA RANDFAN-SX SYSTEM INCLUDES DATA OUPUT WITH TIME & DATE STAMP**

RandFan-SX   Radon Switch Detector and Electronics

APPLICATION:

TA's RANDFAN-SX Radon Switch includes a radon sensor for activation of and/or controls Radon mitigation fans. It is a sensitive, rugged, instrument for detection and measurement of airborne radon. The RANDFAN-SX will trigger radon mitigation fans, close or open air vents, and/or alert staff. Inlet and outlet hoses allow monitoring room air or the interiors of fume hoods, exhaust stacks, etc.

DESCRIPTION:

The RANDFAN-SX Radon operates as a simple stand-alone Radon sensor / controller to activate Radon mitigation fans and devices, fan controller, and alert staff.

The RANDFAN-SX will measure airborne radon as free Radon gas (with or without Radon Daughters at user's option) below 1 pCi/l. All data is stored.

- Verifies Need for Radon Mitigation Devices
- Wide Range - Digital Accuracy
- Sensitive for Occupational Exposure
- Flashing Led for Each Radon Pulse-**Optional** Audio Signal
- Built-In Computer Interface

See RADON IN AIR COMPARISON CHART

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All instruments are calibrated at the factory. Calibration check may be performed in the field with a microCurie level Beta-Gamma source. Chamber may be checked for linearity of response on a Gamma calibration range. User friendly calibration controls are provided.

SPECIFICATIONS:

- **Ranges:**   Large, easy to read digital LED readout. 0.1 to 2,000 pCi/L

- **Smoke, Dust and Ion Elimination:**   Filter and deionizer reduce effects to negligible level.

- **Detectors:**   4 Ion Chambers: 200 milliters each total: 800 milliters
- **Circuit:**   Electrometer circuit amplifies 800 ml radon internal chamber.
  - ❖ **OPTIONAL:**   1 liter chamber.

- **Alarms:**   Low Air Flow / Alarm High Level Alarm: Red Lamps & Audio Alarm.

- **Front Panel Controls:**   Off-On, Range Switch, Calibrate Switch.
  Alarm Set Button, Alarm Reset Button.
  - ❖ **OPTIONAL:**   Tamper Proof Control Panel

- **Calibration:**   Internal calibration with Radon gas.

- **Computer Port:**   RS-232 serial port is built in (fully addressable).

- **Relay Switch:**   Activation of mitigation devices and actions.

- **Case:**   Rugged, weatherproof.

- **OPTIONAL: Electronics FM-9 FOR REMOTE DATA DOWNLOAD:**

  - Digital Display (In Any Units – User Settable)

  - Single Channel; **Optional:** Additional Channels

  - Bench Top; **Optional:** Wall Mount

  - High Sensitivity

  - Real Time Alarm (User Settable)

  - AC Power

  - Plug In FM-9 Modular System

  - On-Board Data Archive & Retrieval

  - Highly Sensitive

  - Local Or Remote Monitoring

  - User Settable Audio / Visual Alarm

  - USB and Ethernet Ports

FM-9 ELECTRONICS

MULTI-AREA RANDFAN-SX SYSTEM:

  - 2 or More RANDFAN-SX

  - Fan Controller

OPTIONS:

  - Multi-Inlet

  - Manifold With Time Share Controller

  - Remote Display

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DIMENSIONS & WEIGHT:

Randfan-SX

- **Stand Alone System Excluding handle:** 7" W x 11.25" H x 7.5" D
- **Wall Mount System:** 4.5" D x 10" H x 10" W
- **Weight:** 12 lbs
- **Shipping weight**: 15 lbs
- **Power:** 100-240 VAC
- **Battery Backup:** 10 Ah Rechargeable Battery; 24 hours between charges. (Standard)

DIMENSIONS & WEIGHT:

FM-9 Electronics

- **Bench Mount:** 11" W X 11" H X 11" D (18 cm x 18 cm x 18cm).
- **Weight:** 8 pounds (3.6 kg)
- **Power:** 105-125 volts, 50-60 Hz (**Optional:** 220 V)

ACCESSORIES & OPTIONS:

- ➢ **RAL-3A:** Remote Alarm (audible & visual)

  Model RAL-3A (includes 25 ft. of cable).

  ❖ **OPTIONAL:** 500 ft Cable.
- ➢ **HTR-7:** Heated Ion Chamber
- ➢ **WIN-W:** Win-Wedge data logging software for users PC.