

# XENON MONITOR

## Model # FM-5XE

### FEATURES:

- LOG SCALE.NO RANGE SWITCHING
- WRITTEN RECORD
- SETTABLE ALARM
- COMPLETELY MODULAR, STANDARD FM-5
- CAN DRAW FROM USE AREA, DUCT, ETC.



**APPLICATION:** The FM-5XE Monitor is becoming a standard safety instrument at all facilities where Xe-133 (m) is used.

**DESCRIPTION:** Model FM-5XE Xenon Monitor determines xenon content of air by drawing the air through a gas chamber which is under constant surveillance by a radiation detector. It is normally supplied with a three foot outlet and inlet hose so that it may draw air from the use area, duct, etc. In addition to showing the xenon content on the meter, it furnishes permanent record in the form of a strip chart. An alarm is included which produces a red flashing light and/or 2,000 Hz (beep) should the preset level be exceeded. The meter and strip chart record are in log form so that they cover a dynamic range of 10,000 - 1 with **no range switching**.

### •SPECIFICATIONS

- Sensitivity:**  $10^{-6}$   $\mu\text{Ci/cc}$  of Xe-133 (m) or 0.1 mpc.
- Detection:** Gas chamber with 2" pancake GM detector (T-1190).
- Shielding:** 3/8" thick lead around chamber and detector.
- Flow Rate:** Regulated - normally set at 1 liters/min.
- Prefilter:** Used to remove particulates.
- Case:** Electronics housed in enameled aluminum; carrying handle included.
- Electronic Modules:**
  - MVR-5R Power Supply (0 to 2000V variable).
  - MLM-5 Log Alarm Ratemeter - Long Time Constant.
  - MRR-5 Recorder.
  - MAL-6B Alarm Module.
- Pump:** Van Type Oilless; muffler included.
- Range:** 4 decades; 0.1; 1; 10; 100; 1,000 mpc; 0.1 mpc ( $10^{-6}$   $\mu\text{Ci/ml}$ ) to 1,000 mpc ( $10^{-2}$   $\mu\text{Ci/ml}$ ).
- Alarm:** Visual: red flasher settable at any point on scale.
- Meter:** 2.5 in; taut band 3%.
- Optional Ranges:** Meter calibrated in  $\mu\text{C/cc}$  of Xe-133 or in mpc. Other ranges or units available.

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