Neutron REM Area Monitoring System

Model: FM-9-REM

Specifications:

Electronic Modules Include:

MV-5.12.24: Power Supply

MAC-9: Air Control Timer; Low Flow Alarm Flowmeter FM-9: On Board computer with color monitor

MμP: Imbedded processor

Readout: 7" Color LCD monitor built-in for digital and graphic user data display.

Power: 110-220 AC (Optional 230 AC)

Range: 5 decades 0.1 mRem to 10 Rem/h. **Accuracy:** $\pm 10\%$ of decade. ± 1 count.

Controls: High Level Alarm Set High Voltage Adjust (internal)

Intermediate Level Alarm Set Power On-Off Switch

Alarm Reset Push Button

Time Constant: Varies inversely with count rate.

Output: RS-232 - User Settable.

Detector: Moderated proportional BF3 neutron tube. Supplied with 8 ft. cable.

Detector Response: Neutrons from thermal to > 100 Mev. Energy matched by LASL designed moderating

sphere to ICRP tissue response curve from thermal to above 7 MeV.

Energy Dependence: Closely follows true REM curve from thermal to above 7 Mev.

Sensitive to >100 Mev.

Environmental Temperature: Operating range between -30°C and 65°C; 0-95% humidity non-condensing.

Data Processing: Counts energy compensated pulses to give direct mRem/hr

(or other presettable unit e.g. μ Sv/h.) RS-232 output.

High Level Alarm: Activated when count rate exceeds set point.

High-level red light on front panel goes on in addition to Beeper.

(Latching or Unlatching)

Intermediate Level Alarm: Level settable below High Level Alarm to warn of unusual RAD level before alarm

level is reached.

Amber light on front panel goes on in addition to sonalert. (Not latching)

Anti-Saturation: Circuitry prevents readings from falling below full scale in over-range conditions.

Line Operation: 105-125V (or 200-240 V), 50-60 Hz.

Weight and Dimensions:

Dimensions: Electronics: 120" W x 13" H x 18" D (50 cm x 33 cm x 45 cm).

Probe: 10" round by 16" H.

Weight: Console: 20 lbs.

Probe: 20 lbs.

Mounting: Electronics are normally furnished in FM-9 case but can be furnished uncased

with mounting bars for rack or Nema 4 (hostile environment) cabinet.





DIVISIONS OF

USNUCLEARCORP

OTCOB-UCLE

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303 PHONE: 818-883-7043 | FAX: 818-883-6103