

MODEL 12-4 NEUTRON COUNTER

- *4 Ranges*
- *Splashproof Shields*
- *Dose Response*
- *Total Range from 0 - 10,000 mrem/hr*



INDICATED USE: Neutron Survey

WORKING ENVIRONMENT: Splash proof shields for outdoor use

DETECTORS: 1.6 cm diameter X 2.5 cm thick ^3He detector surrounded by a 9" (22.9 cm) diameter cadmium loaded polyethylene sphere

SENSITIVITY: Approximately 120 cpm/mrem/hr (*AmBe neutrons*)

NOTE: This unit provides an approximate inverse RPG curve for neutrons from thermal through 10 MeV

GAMMA REJECTION: Less than 10 cpm through 10 R/hr

AUDIO: Built in unimorph speaker with ON/OFF switch (*greater than 60 dB at 2 feet*)

METER DIAL: 0 - 10 mrem/hr, 0 - 2.5 kV, BAT TEST (*others available*)

MULTIPLIERS: X1, X10, X100, X1000

LINEARITY: Reading within plus or minus 10% of actual value

CALIBRATION CONTROLS: Accessible from front of instrument (*protective cover provided*)

HIGH VOLTAGE: Adjustable from 200 - 2500 volts (*can be read on meter*)

DISCRIMINATOR: Adjustable from 2 - 60 mV

RESPONSE: Toggle switch for FAST (4 seconds) or SLOW (22 seconds) from 10% to 90% of final reading

RESET: Push-button to zero meter

POWER: 2 each "D" cell batteries (*housed in sealed compartment that is externally accessible*)

BATTERY LIFE: Typically 600 hours with alkaline batteries (*battery condition can be checked on meter*)

METER: 2.5" (6.4cm) arc, 1 mA analog type

CONSTRUCTION: Cast and drawn aluminum with beige polyurethane enamel paint

TEMPERATURE RANGE: -20° C to 50° C

May be certified for operation from -40° C 65° C

SIZE: 43.2cm H X 22.9cm W X 26.7cm L

WEIGHT: 9.5 kg including batteries