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**Ludlum
Model 12-4 Neutron Counter
PART NUMBER:48-1200**

- **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 BF³ detector surrounded by a 9"(22.9 cm) diameter cadmium loaded polyethylene sphere

SENSITIVITY: Approximately 30 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: -4° F(-20° C) to 122° F(50° C)

May be certified for operation from -40° F(-40° C) to 150° F(65° C)

SIZE: 17"(43.2cm)H X 9"(22.9cm)W X 10.5"(26.7cm)L

WEIGHT: 21 lbs(9.5 kg) including batteries