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**Ludlum
Model 15 Survey Meter
PART NUMBER:48-1614**

- **End Window G-M Detector for Alpha Beta and Gamma**
- **BF³ Proportional Detector with Moderator for Neutron 4 Ranges**
- **Total Counting Range from 0 - 500,000 cpm**



INDICATED USE: Fast and thermal neutron, alpha, beta-gamma survey

DETECTORS: Controlled by selector switch

NEUTRON: Model 42-9 BF³ proportional detector with 3"(7.6 cm) diameter cadmium lined moderator for fast neutrons (*remove detector from moderator for thermal neutrons*)

ENERGY RESPONSE: Count response is not linear throughout energy spectrum (0.025 - 8 MeV)

SENSITIVITY: Typically 60 cpm/mrem/hr (*AmBe fast neutrons*)

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

ALPHA BETA-GAMMA: Model 44-7 thin end window G-M detector (*others available*)

WINDOW: 1.7 plus or minus 0.3 mg/cm² mica

WINDOW AREA:

Active - 6.4 cm²

Open - 5.2 cm²

EFFICIENCY(2pi geometry): Typically 5% - 14C; 20% - 90Sr/90Y; 15% - 239Pu

SENSITIVITY: Typically 2100 cpm/mR/hr (*137Cs gamma*)

METER DIAL: 0 - 500 cpm, 0 - 2.5 kV, BAT TEST (*others available*)

MULTIPLIERS: X1, X10, X100, X1000

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

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

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

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

Page 1 of 2 Model 15 Neutron Meter

2/10/2005 <http://www.ludlums.com/product/m15.htm>

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: 12.5"(31.8cm)H X 3.5"(8.9cm)W X 8.5"(21.6cm)L

WEIGHT: 8 lbs(3.7 kg) including batteries