

Model 2363 Gamma/Neutron Survey Meter



Ludlum Measurements, Inc.

INDICATED USE: Gamma and Neutron Survey

COMPATIBLE DETECTORS:

EXTERNAL: Model 42-41 PRESCILA detector
INTERNAL: Energy-compensated GM detector

SENSITIVITY:

Gamma: 1000 cpm per mrem/hr (internal detector)
Neutron: 350 cpm per mrem/hr (with Model 42-41)

ADJUSTABLE ALARMS: (Indicated by front panel - red LEDs):

Gamma alarm
Neutron alarm
Integrated dose alarm

LOGGING PUSHBUTTON: Located in the handle; used to store a reading

DATA LOGGER: Capable of logging up to 1000 individual data points with the following identifiers for each point (*All data is stored in non-volatile memory, allowing batteries to be removed without loss of data*)

gamma and neutron sample counts
sample number
date/time stamp
current integrated dose
10 character location identifier

RS-232 PORT: Located on the can, this allows the instrument to be connected to a PC for data download, and adjustment of setup parameters.

CONNECTOR: Series "C" (*others available on request*)

AUDIO: Built in unimorph speaker with volume control (*greater than 60 dB at 2 feet, full volume*)

AUDIO DIVIDE: Selectable dual or individual click-per-event for gamma and neutron counts

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

METER DIAL: 0 - 10 mrem/hr, BAT OK, (overload)

MULTIPLIERS: X0.1, X1, X10, X100

LINEARITY: Reading within 10% of true value

DIGITAL DISPLAY: 6 digit LCD with 0.25" digits

SELECTOR SWITCH: Toggle switch to select gamma+neutron, gamma only, or neutron only

RESET/READ HV: A two position momentary action switch to allow for the meter to be reset or a reading of the current integrated dose on the digital display

RESPONSE: Will vary according to the number of counts present. Typically 2 - 11 seconds from 10% - 90% of final reading

POWER: 2 each "D" cell batteries (*housed in sealed compartment that is accessible from front of instrument*)

BATTERY LIFE: Greater than 150 hours (*battery condition can be checked on meter*)

CONSTRUCTION: Cast and drawn aluminum with beige polyurethane enamel paint

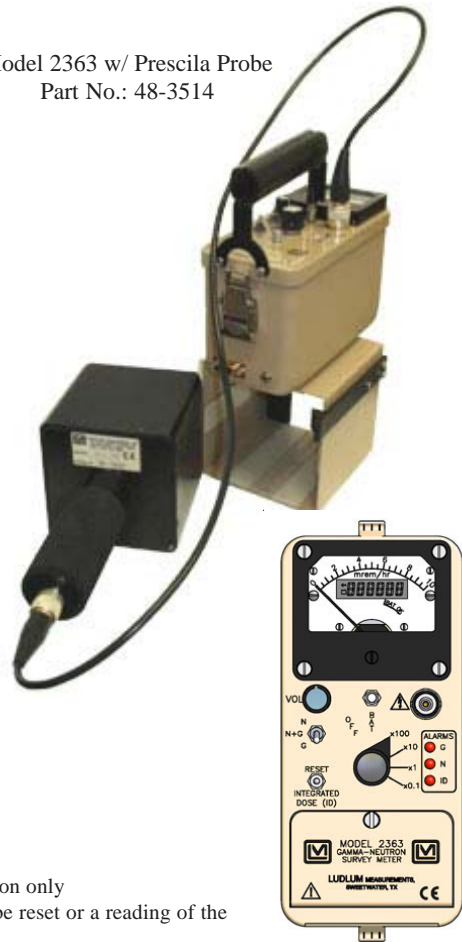
TEMPERATURE RANGE: -4° F(-20° C) to 122° F(50° C)

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

SIZE: 6.5"(16.5cm)H X 3.5"(8.9cm)W X 8.5"(21.6cm)L

WEIGHT: 3.5 lbs (1.6kg) including batteries

Model 2363 w/ Prescila Probe
Part No.: 48-3514



Model 42-41 PRESCILA Neutron Probe

INDICATED USE: Neutron Survey

DETECTOR: PRESCILA Proton Recoil Scintillator

SENSITIVITY: Approximately 350 cpm per mrem/h

NEUTRON ENERGY RESPONSE: Thermal to 100MeV

ANGULAR DEPENDENCE: Within 15% over wide range of energies

GAMMA REJECTION: Approximately 500 cpm at 100mR/h (Cs-137)

COMPATIBLE INSTRUMENTS: Ludlum Models 12, 2363, 2241 series, and 2350-1

OPERATING VOLTAGE: Typically 500 - 700 volts

CONNECTOR: Series "C" (*others available on request*)

CONSTRUCTION: Aluminum housing w/black powdercoat finish

TEMPERATURE RANGE: Temperature dependent

SIZE: 10.125"(25.7cm)H X 4.25"(10.80 cm)W X 4.25"(10.80 cm)L

WEIGHT: 4.46 lbs.



Part No.: 47-3309