

Ludlum Model 19 Micro R Meter

The Ludlum Model 19 Micro R survey meter is useful for low level gamma survey at the micro R level. The detector is an internal 1" X 1" sodium iodide (NaI)TI scintillator. **No external detector is required.** Splash proof shields are included for outdoor use. Sensitivity is typically 175 cpm/microR/hr based on 137Cs gamma. This meter over responds to scatter and low energy gamma which makes it more sensitive than any survey meter available. Range selections include 0 - 25, 0 - 50, 0 - 250, 0 - 500, 0 - 5000 microR/hr.



WORKING ENVIRONMENT: Splash proof shields for outdoor use

INDICATED USE: Low level (microR) gamma survey

DETECTOR: 1" X 1" sodium iodide (NaI)TI scintillator

SENSITIVITY: Typically 175 cpm/microR/hr (*137Cs gamma*)

ENERGY RESPONSE: Energy dependent

METER DIAL: 0 - 25 microR/hr, 0 - 50 microR/hr, BAT TEST

RANGE SELECTIONS: 0 - 25, 0 - 50, 0 - 250, 0 - 500, 0 - 5000 microR/hr

LIGHT: Push-button to activate

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

CONSTRUCTION: Cast and drawn aluminum with beige polyurethane enamel paint

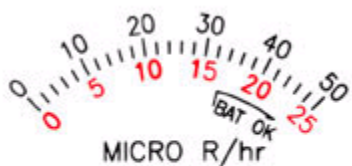
TEMPERATURE RANGE: -4° F(-20° C) to 122° F(50° C)

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

SIZE: 7.8"(19.8 cm)H X 3.5"(8.9 cm)W X 8.5"(21.6 cm)L

WEIGHT: 4.5 lbs(2.1 kg) including batteries

Ludlum Model 19 Common Meter Dials



202-016

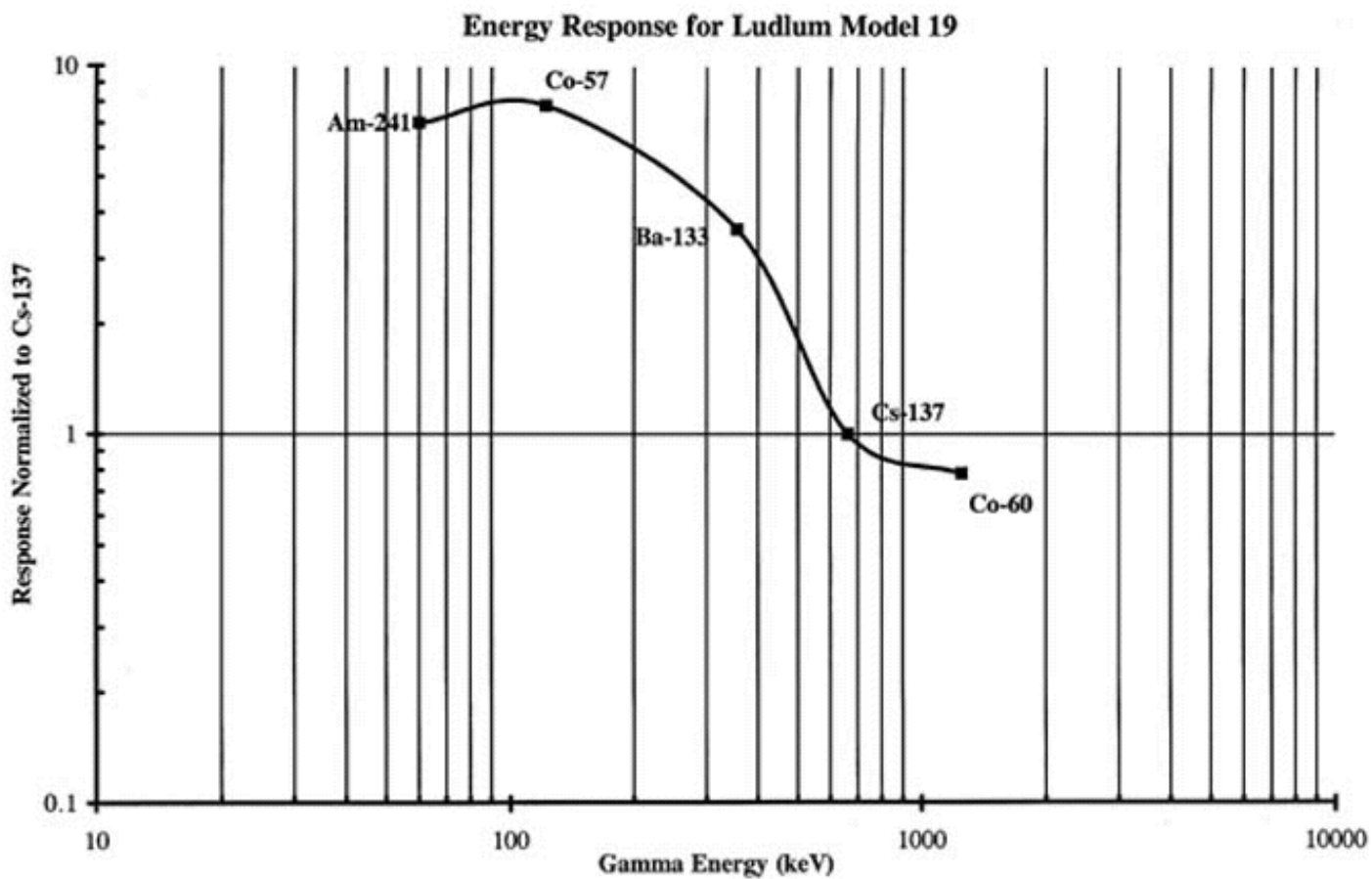
202-016
0 - 50 μ R/hr; 0 - 25 μ R/hr



202-702

202-702
0 - 0.5 μ Sv/h; 0 - 0.25 μ Sv/h

Ludlum Model 19 Energy Response Curve



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