

Model 12SA

General Purpose MicroR Ratemeter with Alarm



Ludlum Measurements, Inc.

Features

- 0–3000 $\mu\text{R/hr}$ Range
- Rugged
- 4-Range Analog Ratemeter
- Greater than 600 Hour Battery Life
- Audible & Visual Alarms
- High Sensitivity to Gamma
- Complete Turn-Key System



Specifications

Part Number: 48-2621

INDICATED USE: low-level gamma radiation survey

DETECTOR: internally mounted 2.5 x 2.5 cm (1 x 1 in.) NaI(Tl) scintillator

TYPICAL SENSITIVITY (^{137}Cs): 175 cpm per mR/hr

ENERGY RESPONSE: energy dependent

ALARM: indicated by red lamp and audible tone (can be set to any point)

HIGH VOLTAGE: adjustable from 200-1500 Vdc

THRESHOLD: adjustable from -6 to -32 mV

LINEARITY: $\pm 10\%$ of true reading

METER DIAL: 0–3 $\mu\text{R/hr}$, BAT TEST (others available)

CONTROLS:

Rotary Selector Switch: off, battery check, range selections for x1, x10, x100, x1000

Reset Button: to zero meter

High Voltage Check Button: view high voltage setting on meter face

Response Switch: toggles between FAST (4 seconds) or SLOW (22 seconds) from 10% to 90% of final reading

Audio Switch: on/off, built-in unimorph speaker, greater than 60 dB at 61 cm (2 ft)

Calibration Controls: accessible from front of instrument (protective cover provided)

POWER: two each "D" cell batteries (housed in externally accessible sealed compartment)

BATTERY LIFE: exceeds 600 hours, may be checked on meter face

CONSTRUCTION: cast and drawn aluminum with beige powder coat

SIZE: 22.2 x 21.6 x 8.6 cm (8.8 x 8.5 x 3.4 in.) (H x W x L) with handle

WEIGHT: 2.1 kg (4.6 lb) including batteries

Ludlum Measurements, Inc. P.O. Box 810, Sweetwater, Texas 79556

Web: <http://www.ludlums.com> **Tel:** 800-622-0828 / 325-235-5494 / **Fax:** 325-235-4672 / **Email:** sales@ludlums.com

Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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