

Model 78-1

Stretch Scope Exposure Ratemeter

Radiation Detection for a Safer World



Ludlum Measurements, Inc.

Features

- 0.1 $\mu\text{Sv/h}$ to 10,000 mSv/h (R version also available)
- 1.2 m (4 ft) to 3.7 m (12 ft) Telescoping Stainless Pole
- Dual Analog/Digital Display
- Splashproof Buttons
- Energy Compensated GM Detectors

Introduction

The Model 78-1 Stretch Scope keeps the user a safe distance from high rad areas, and reaches areas difficult to access with other probes. The wide detection range is accomplished using dual energy-compensated GM detectors. The backlit digital LCD delivers precise 4-digit measurement values, which can be programmed to display units of Sv or Counts, and is accompanied by icons and messages for operational status of the instrument. Rate changes are conveniently viewed on the accompanying analog meter. Clip-on shoulder strap is included.



Part Number: 48-3743
(shown with optional headset)

Specifications

WORKING ENVIRONMENT: splashproof shields for outdoor use
DETECTORS: 2 energy-compensated GM tubes
ENERGY RESPONSE: within 25% of true value from 60 keV–3 MeV
DISPLAY: 4-digit LCD display with 1.3 cm (0.5 in.) digits, and 6.4 cm (2.5 in.) analog meter
DISPLAY RANGE: 000.0-999.9 with indicators of Sv (R display also available)
BACKLIGHT/RESET: temporary action 2-position toggle switch to turn backlight on for preset time, or zero meter and display
METER DIAL: 0–10k 4-decade logarithmic
RANGE SELECTION: 2-position toggle switch to select between $\mu\text{Sv/h}$ and mSv/h
LINEARITY: reading within 10% of true value
AUDIO: built-in click-per-event audio with ON/OFF switch
RESPONSE: dependent on number of counts present: typical times FAST 4–25 seconds, or SLOW 4–60 seconds, from 10% to 90% of final reading
POWER: 2 “D” cell batteries (housed in sealed handle)
BATTERY LIFE: typically 250 hours with alkaline batteries (low battery indicated on display)
METER: 6.4 cm (2.5 in.) arc, 1 mA analog type
CONSTRUCTION: aluminum housing with beige powder coat, and polished stainless steel telescope
TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F)
SIZE: 18 x 10.1 x 114 cm retracted; 396.2 cm fully extended (7 x 4 x 45 in. retracted; 156 in. fully extended) (H x W x L, fully extended L)
WEIGHT: 2.9 kg (6.4 lb), including batteries

Also Available

Model 78: same as above, but in R units (0.1 mR/hr to 1000 R/hr), Part No. 48-2832