

Model 78-1

Stretch Scope Exposure Ratemeter



Ludlum Measurements, Inc.

Features

- Display Range: 1 $\mu\text{Sv/h}$ to 9999 mSv/h (R version also available)
- 1 m (42 in.) to 3.8 m (12.4 ft) Telescoping Stainless Pole
- Dual Analog/Digital Display
- Splashproof Buttons
- Energy Compensated GM Detectors



(shown with optional headset)

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.

Specifications

Part Number: 48-3743



WORKING ENVIRONMENT: splashproof shields for outdoor use (environmental rating of IP52)

DETECTORS: 2 energy-compensated GM tubes

ENERGY RESPONSE: within 25% of true value from 60 keV–3 MeV

ANALOG METER DIAL: 0–10k 4-decade logarithmic

DISPLAY: 4-digit LCD display with 1.3 cm (0.5 in.) digits

DISPLAY RANGE: 000.0–999.9 with indicators of Sv (R display also available)

MEASURED RANGES: 0.001 mSv/h–9.999 mSv/h or 1 mSv/h–9.999 Sv/h

RANGE SELECTION: 2-position toggle switch to select between $\mu\text{Sv/h}$ and mSv/h

BACKLIGHT/RESET: temporary action 2-position toggle switch to turn backlight on for preset time, or zero meter and display

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: 12.2 x 10.9 x 105.9 cm retracted; 377.2 cm fully extended (4.8 x 4.3 x 41.7 in. retracted; 148.5 in. fully extended) (H x W x L, fully extended L)

WEIGHT: 2.9 kg (6.4 lb), including batteries

Options:

Case: water, crush- and dust-proof wheeled case with custom foam pads protect & transport instrument PN 4272-444

Headphone: dual volume controls, padded ear cups, adjustable head strap, 3 m (10 ft) cord PN 47-3708

Also Available

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

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.

April 2016