

# Model 78-9 Beta-Gamma Stretch Scope



Ludlum Measurements, Inc.

## Features

- Stainless Telescoping Pole to 3.7 m (12 ft)
- Flexible Gooseneck Extension
- GM Pancake Detector
- Backlit Digital Display
- Splashproof Buttons with Switch Guard
- Adjustable Carrying Strap
- Removable Handle for More Compact Storage/Transport

(detail of detector end with protective cap in place)



## Introduction

The Model 78-9 Stretch Scope telescoping beta-gamma survey meter allows the user to determine surface activity from a distance, and reach areas that are difficult to access with other hand probes. The detector, Ludlum's Model 44-9-21 is firmly attached to the pole by means of a thumbscrew. The pole is constructed from stainless steel and extends to 3.6 m (12 ft). An adjustable carrying strap that clips securely to the instrument is included to provide comfort during surveys or while carrying the instrument.

The backlit digital LCD delivers precise 4-digit measurement values, which can be programmed to display units of cps or  $\mu\text{Sv/h}$ , and is accompanied by icons and messages for operational status of the instrument. This instrument does not incorporate an analog meter as do many of the other Ludlum Model 78 series stretch scopes. The front-panel controls include switches for On/Off, Audio, cps/ $\mu\text{Sv/h}$ , Fast/Slow response, and LCD backlight. Front-panel switches are sealed with rubber "boots" for resistance to moisture, and protected with a switch guard to minimize damage or inadvertent changes.

## Specifications

Part Number: 48-3808

**INDICATED USE:** beta-gamma survey with telescoping pole-mounted detector, 3.6 m (12 ft) fully extended

**WORKING ENVIRONMENT:** indoor/outdoor (splashproof shields for outdoor use); environment rating IP52

**DETECTOR:** halogen-quench GM pancake, 15 cm<sup>2</sup> (2.3 in<sup>2</sup>) active, 12 cm<sup>2</sup> (1.9 in<sup>2</sup>) open

**DETECTOR OPERATING VOLTAGE:** 900 Vdc

**ANGULAR RESPONSE:** within 30% as detector is rotated from 0 to 90 degrees (calibration reference is with radiation field parallel to the long axis of the detector)

**GEOTROPISM:** referenced to the unit in horizontal position with display up, the indication will not vary more than 2% of the full-scale reading with the unit in any other direction

**ENERGY RESPONSE:** energy dependent (see Model 44-9)

**DISPLAY:** 4-digit LCD display with 1.3 cm (0.5 in.) character height

**DISPLAY RANGE:** 000.0–999.9 with indicators of cps and  $\mu\text{Sv/h}$

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

**AUDIO:** built-in click-per-event audio with ON/OFF switch

**HEADPHONE JACK:** size 0.32 cm (1/8 inch)

**RESPONSE: VARIABLE:** dependent on number of counts present: typical times FAST 4–25 seconds, or SLOW 4–60 seconds, from 10% to 90% of final reading

**FIXED:** Fast response is programmable from 1–199 seconds; Slow is approximately five times slower than Fast

**POWER:** 2 "D" cell batteries (housed in sealed handle)

**BATTERY LIFE:** typically 250 hours with alkaline batteries (low battery indicated on display)

**CONSTRUCTION:** aluminum housing with beige powder coat finish, polished stainless steel telescope assembly

**TEMPERATURE RANGE:** -15 to 50 °C (5 to 122 °F); may be certified for -40 to 65 °C (-40 to 150 °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



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

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