

Gamma Survey System

Pole-Mounted Detector with Digital Display



Ludlum Measurements, Inc.

Features

- Extended Reach with Telescopic Pole
- Backlit LCD with Adjustable Viewing Angle
- Intuitive Operation with Splashproof Design
- Low-Level, Wind-Energy Gamma Detector with 2 x 2 in. Scintillator
- All Required Cables, Clamps, Batteries, and Current Calibration with Certificate is Included

Model 44-10
Gamma Detector



Model 30
Digital Survey Meter

Model 4498-865-01
Telescopic Pole



The Ludlum Model 79-2 Stretch Scope provides the operator with the ability to investigate areas of suspected gamma contamination while remaining at a greater distance from potentially high fields of radioactivity. The telescoping pole allows the attached detector to reach areas difficult to access with other types of instruments. A large-easy-to-read LCD display rotates to maximize ease of viewing. Padded shoulder strap (included), piercing warning tone, and easy, intuitive design are also featured. The display unit's body is made of durable, high-impact plastic with splash-resistant construction allowing the Model 79-2 to be used outdoors.

Three modes of operation - RATE, MAX, and COUNT - are available. Measurements can be collected in two sets of units (primary and secondary) for RATE and MAX modes in cps, cpm Sv/h, mrem/hr, and R/hr units. The operator may choose the desired units by simply pressing the Units button. An internal switch allows the user to enable or disable the front-panel setup feature to protect desired settings from inadvertent modification.

Specifications

ALARMS: count rate, exposure/dose, and scaler alarm set points adjustable over the display range

OVERLOAD: high count rate saturation protection prevents false display of lower count rates

LOSS OF COUNT ALARM PROTECTION: after preselected time interval (default 60 seconds) of no pulses from detector, audible and visual alarms will be activated

LCD DISPLAY: 3 digit LCD with large 13.4 mm (0.53 in.) digits, (k)cps, (k)cpm, (k)Bq, (k)dpm, (μ)(m)R/(h), (μ)(m)Sv/(h), low-battery indicator, MAX, ALARM, MUTE

DISPLAY RANGE: 0.0 cps to 99.9 kcps; 0.00 cpm to 999 kcpm; 0.00 Bq to 99.9 kBq; 0.00 dpm to 999 kdpm; 0.00 μ R/h to 999 R/h; 0.00 μ Sv/h to 999 Sv/h. Display range can be set to limit display to calibrated range

BACKLIGHT: built-in ambient light sensor automatically activates low-power LED backlight, unless internal dipswitch is set to continuous-On (will reduce battery life). Alarm light intensity varies based on ambient light levels.

USER CONTROLS:

- **ON/OFF/ACK** - press to turn ON, tap to acknowledge alarms and silence alarm tone, press to reset Sigma Audio alarm, turn "click" audio On/Off, turn Sigma Audio beep On/Off, hold for OFF
- **MODE** - alternates between NORMAL (count rate), MAX (captures peak rate), and COUNT (user-selectable preset count time from 0 to 10 minutes). Number of modes can be reduced in setup.
- **UNITS** - changes the units between primary or secondary units

RESPONSE TIME: user-selectable from 1 to 60 seconds, or Auto-Response Rate FAST or SLOW

AUDIO: greater than 75 dB at 0.6 (2 ft), approximately 4.5 kHz

POWER: two alkaline or two rechargeable "AAA" batteries

BATTERY LIFE: approximately 100 hours of operation, 16-hour low battery warning

CONSTRUCTION: high-impact plastic with water-resistant rubber seals and separate battery compartment

TEMPERATURE RANGE: -20 to 50 °C (-5 to 122 °F), may be certified for operation from -40 to 65 °C (-40 to 150 °F)

SIZE: Display Unit 8.5 x 8.0 x 4.8 cm (3.4 x 3.1 x 1.9 in.); Detector 6.6 x 27.9 cm (2.6 x 11 in.); Pole: 1.8 m (6 ft.), extended 3.66 m (12 ft)

WEIGHT: Display Unit 174 g (0.38 lb); Detector 1.04 kg (2.3 lb); plus telescopic fiberglass pole, clamps, cables, batteries