

Model 3006

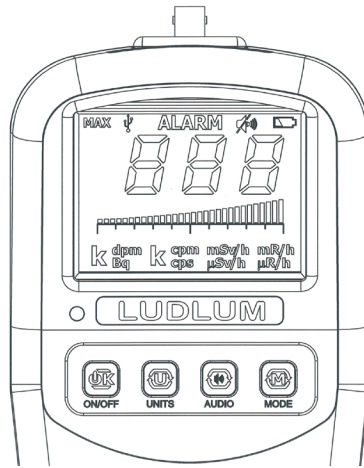
Extended Reach Gamma & X-ray Survey Meter



Ludlum Measurements, Inc.

Features

- Large Backlit LCD
- Very Sensitive Pole-Mounted Detector
- Auto-ranging
- Rate, Max, and Count Modes
- Splash-Resistant Construction
- All-Digital Calibration
- Lightweight but Rugged
- 4-Button Intuitive Interface for Easy Operation



Part Number: 48-4284

Introduction

The Model 3006 is a portable and versatile instrument with an extended reach used for gamma or X-ray radiation survey. A sensitive plastic scintillator detector is mounted at the end of a pole for ease of use when surveying trucks, scrap metal, or other areas of concern.

This instrument features a large, easily readable LCD (liquid crystal display), a piercing audio warning tone, and an intuitive, user-friendly design. Splash-resistant construction allows the Model 3006 to be used outdoors. The unit body is made of lightweight, durable, high-impact plastic. The Model 3006 comes ready to be used with batteries and a calibration certificate.



Specifications

- DETECTOR:** 15.2 cm diameter x 2.5 cm thick (6 x 1 in.) plastic scintillator
SENSITIVITY: typically 2500 cps per $\mu\text{Sv/h}$ (1500 cpm per $\mu\text{R/h}$) (^{137}Cs gamma)
ENERGY RESPONSE: energy dependent
LINEARITY: reading $\pm 10\%$ of true value
ALARMS: count rate, exposure/dose, and scaler alarm adjustable setpoints
SIGMA AUDIO MODE: an alarm that allows user to find small increases above the background radiation level. The instrument will beep whenever it measures a rate that exceeds a threshold rate above the measured background rate.
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 large 20 mm (0.8 in.) digits, (k)cps, (k)cpm, (k)Bq, (k)dpm, (μ)(m) R/h, (μ)(m)Sv/h, low-battery indicator, MAX, ALARM, AUDIO
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 $\mu\text{R/h}$ to 999 R/h; 0.00 $\mu\text{Sv/h}$ to 999 Sv/h. Max display 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)
USER CONTROLS:
 - ON/OFF: press to turn ON, tap to acknowledge alarms and silence alarm tone, press to reset Sigma Audio alarm, 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)
 - AUDIO: turn "click" audio On/Off, turn Sigma Audio beep On/Off
 - UNITS: changes the units between count rate (cpm, cps), dose/exposure ($\mu\text{Sv/h}$, mR/h), or disintegration (dpm, Bq)**RESPONSE TIME:** user-selectable from 1 to 60 seconds, or Auto-Response Rate FAST or SLOW
HV RANGE: 400 to 1500 Vdc
AUDIO: greater than 75 dB at 0.6 m (2 ft), approximately 4.5 kHz
POWER: 4 alkaline or rechargeable "AA" batteries (instrument does not support in-device charging)
ENVIRONMENTAL RATING: NEMA (National Electrical Manufacturers Association) rating of 4x or IP (Ingress Protection) rating of 53
BATTERY LIFE: approximately 750 hours of operation (as low as 100 hours with backlight configured for continuous-on), 16-hour low-battery warning
CONSTRUCTION: high-impact plastic with water-resistant rubber seals and separate battery compartment
OVERALL LENGTH: 118 cm (46.5 in.)
OVERALL WEIGHT: 3.2 kg (7.0 lb) (without batteries)

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

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