LUDLUM MEASUREMENTS, INC.

Model 3006
Extended Reach Gamma & X-ray Survey Meter

Part Number: 48-4284

Features:

- Very Sensitive Pole-Mounted Detector
- Large, Backlit, Easy-To-Read LCD Screen
- Auto-Ranging
- RATE, MAX, and COUNT Modes
- Splash-Resistant Construction for Outdoor Use
- All-Digital Calibration
- Lightweight Yet Rugged
- Simple 5-Button Interface

Introduction

The Model 3006 is a portable and versatile instrument with an extended reach detector used for gamma or x-ray radiation survey. A sensitive plastic scintillation detector is mounted at the end of a 118 cm (46.5 in.) pole for ease of use when surveying trucks, scrap metal, or other items/areas of concern. It features a large, easy-to-read LCD screen and audible alarms and is controlled using a simple five-button interface. The meter body is made of high-impact plastic and splash-resistant construction allows the instrument to be used outdoors.

Three modes of operation are available – RATE, MAX, and COUNT – which can be selected by pressing the MODE button. Measurements can be collected in two sets of units (primary and secondary) for RATE and MAX modes in cps, cpm, mR/h or µSv/h units. The user can switch between the two sets of units by pressing the UNITS button. A sigma audio mode can be enabled that allows the user to find small increases above the background radiation level. When enabled with the optional Lumic Data Logger Kit (PN: 4498-1019), data can be logged in any of the operational modes using the LOG button on the handle. Up to 1000 data points can be stored internally.

Instrument setup can be done either through the front-panel controls or via the Lumic Calibration Kit (PN: 4519-865). The Model 3006 is shipped ready to use with batteries and a calibration certificate.

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.

Jul 2026

Specifications

DETECTOR: 15.2 cm diameter x 2.5 cm thick (6 x 1 in.) plastic scintillator
SENSITIVITY: Typically 150 kcpm per µSv/h (1500 cpm per µR/h) (^{137}Cs gamma)
ENERGY RESPONSE: Energy dependent
LINEARITY: Reading ±10% of true value
DISPLAY: 3-digit auto-ranging LCD with large 20 mm (0.8 in.) digits. Units: (k)cps, (k)cpm, (µ)(m)R(/h), (µ)(m)Sv(/h). Indicators: bar graph, MAX, ALARM, USB, audio, low battery.
DETECTOR RANGE: 0.01 to 25.0 µSv/h (0.01 µR/hr to 2.50 mR/hr)
BACKLIGHT: Built-in ambient light sensor automatically activates low-power LED backlight, unless internal dipswitch is set to continous-on (will reduce battery life)
USER CONTROLS:

- ON/OFF: Extra-long press to turn ON; short press to acknowledge alarms; extra-long press plus 3 seconds to turnOFF
- UNITS: Short press changes the units between count rate, ambient dose equivalent H*(10)/exposure, or disintegration, an extra-long press to change count time in COUNT mode
- AUDIO: Short press to adjust audio level
- MODE: Short press alternates between modes: RATE (displays count rate), MAX (captures peak rate), and COUNT (captures rate or dose readings for a user-selectable preset count time from 0 to 10 minutes)
- LOG: Short press to log current display (requires Lumic Data Logger Kit), or initiate count in COUNT mode

DATA LOGGING: Can store up to 1000 data points internally. Requires Lumic Data Logger Kit (PN: 4498-1019)
RESPONSE TIME: User-selectable from 1 to 60 sec, or Auto-Response Rate FAST or SLOW
ALARMS: Count rate, exposure/ambient dose equivalent H*(10), and scaler alarm adjustable set-points
SIGMA AUDIO MODE: 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 PROTECTION: High count rate saturation protection prevents false display of lower count rates. "OL will appear on the display and an audio warning will be triggered.
LOSS OF COUNT PROTECTION: After a user-settable time interval (default 60 seconds) of no pulses from the detector, unit will flash a zero reading and the alarm audio will be triggered
DEAD TIME CORRECTION: Employs first and second order corrections for extended performance
OVERRANGE: If the reading should exceed the predefined detector range, the instrument will flash a maximum reading and trigger an audio warning.
HV RANGE: 400 to 1500 Vdc
THRESHOLD: -20 to -100 mVdc
AUDIO: Approximately 4.5 kHz, click audio greater than 65 dB at 0.6 m (2 ft), alarm audio greater than 72 dB
POWER: 4 alkaline "AA" batteries
BATTERY LIFE: Approximately 750 hours of operation (as low as 100 hours with backlight configured for continuous-on), 16-hour low-battery warning
TEMPERATURE RANGE: -20 to 50 °C (-5 to 122 °F), may be certified for operation from -40 to 65 °C (-40 to 150 °F)
ENVIRONMENTAL RATING: NEMA rating of 5 or IP rating of 53
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)

Options:

Lumic Calibration Kit (PN 4519-865): Lumic Calibration Software allows the reading and writing of important parameters via a USB port in the Model 3000 Series and Model 30 family of instruments. The kit includes Lumic Calibration Software versions 1.0 and 2.0, a Model 3000 Series USB cable, and a Model 30 family USB cable.

Lumic Data Logger Kit (PN 4498-1019): Includes software and required cable. Lumic Data Logger Software is required to use instrument data logging features.

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.