

# Model 2242 Survey Meter

*Radiation Detection for a Safer World*



Ludlum Measurements, Inc.

## Features

- 0.1 mR/hr–999.9 R/hr Range
- Dual Energy Compensated GM Detectors
- Splashproof
- Rugged
- 7-Decade Digital Ratemeter
- RS-232 Port with Data Streaming
- Programmable Parameters
- CE Certified Instrument



Part Number 48-3437

## Introduction

The Model 2242 is a gamma exposure digital ratemeter equipped with two internally-housed, energy-compensated GM detectors. The backlit LCD presents a four-digit measurement value along with units that can be set up for R, Sv, or Counts, and includes icons for alarms and operational status.

Instrument parameters, including Dead Time Correction, LCD backlight ON time, Fixed or Variable response time, and count overflow visual alarm, may be programmed manually using the internal switch board, or by computer using the RS-232 port. The switch board can then be removed after entering and changing parameters to prevent undesired altering of setup parameters, without affecting normal operation of the instrument.

The aluminum cast instrument housing with its separate battery compartment and accompanying metal handle offer an industrial robustness and quality that promote long-lasting protection and instrument life. This instrument is a complete turn-key system including the two “D” cell batteries.

## Specifications

ENERGY RESPONSE: within 15% of true value from 60 keV–3 MeV  
DETECTOR: 2 internal energy compensated GM tubes  
WORKING ENVIRONMENT: splashproof for outdoor use  
METER: 4-digit LCD display with 1.3 cm (0.5 in.) high digits, separate annunciators for display units, alert/alarm, low battery, detector overload  
RANGE SWITCH: LOW (mR/hr), HIGH (R/hr)  
BACKLIGHT: pushbutton to activate  
OVERLOAD PROTECTION: included, indicated by message on display  
AUDIO: built-in unimorph type speaker with ON/OFF switch  
ALERT/ALARM: indicated by annunciators on display and audible tone  
BATTERY LIFE: typically 200 hours with alkaline batteries, low battery indicated on display  
RESET: pushbutton to zero meter  
CALIBRATION CONTROLS: some are accessible from the front of the instrument, others are internally located  
RS-232 PORT: outputs data every 2 seconds, can also be used to calibrate via optional software  
TEMPERATURE RANGE: -30 to 50 °C (-22 to 122 °F)  
POWER: 2 “D” cell batteries (housed in sealed compartment that is externally accessible)  
SIZE: 16.5 x 8.9 x 21.6 cm (6.5 x 3.5 x 8.5 in.) (H x W x L)  
WEIGHT: 1.6 kg (3.5 lb) including batteries

**Options:** Check Source: Model L-01-5196  
Shoulder Strap: Model L-4363-413