

Model 2401-ECA Gamma Survey Ratemeter

Radiation Detection for a Safer World



Ludlum Measurements, Inc.

Features

- Self-Contained Survey Instrument
- Audible & Visual Alarm
- Simple to Use
- Low Cost
- Rugged

Introduction

The Model 2401-ECA instrument is a pocket size radiation detection meter with an integrated energy-compensated GM tube for measuring low levels of gamma radiation. The meter measures 0–200 mR/hr exposure rate and also 0–210,000 cpm via separate scales. Audible and visual alarms indicate radiation levels in excess of the user-adjustable alarm set point. The metal case offers excellent protection against abuse. The overall size and integrated design facilitate ease of use.



Part Number: 48-2996

Specifications

INDICATED USE: gamma survey

DETECTOR: energy compensated GM tube

RANGE: 0–200 mR/hr; 0–210,000 cpm

SENSITIVITY: typically 1050 cpm/mR/hr (¹³⁷Cs gamma)

ENERGY RESPONSE: reading within 20% of true value

RESPONSE TIME: typically 11 seconds from 10% to 90% of final reading

METER DIAL: 0–2 mR/hr; 0–2100 cpm, BAT OK

MULTIPLIERS: x1, x10, and x100

AUDIO: click-per-event, may be turned off by moving selector to QUIET position

POWER: 9 volt battery

BATTERY LIFE: typically 250 hours with alkaline battery at normal background levels

CONSTRUCTION: drawn and cast aluminum, with membrane panel

SIZE: 4.6 x 8.4 x 13.5 cm (1.8 x 3.3 x 5.3 in.) (H x W x L)

WEIGHT: 0.4 kg (0.9 lb), including battery

ALARM: user-adjustable from 0 to full scale meter deflection, detected radiation over alarm setpoint triggers a red Alarm LED and steady audible tone whether in NORMAL or QUIET mode

Options

Belt Clip (Model L-4397-176), metal clip

Handle (Model L-4397-165-01), convenient L-shaped handle

Case (Model L-2310517), zippered nylon case with web belt loop

Case (Model L-2311119), rugged water, dust, & crush resistant case

Wrist Strap (Model L-4397-182), woven nylon lanyard with clip

Model 2401-EC: same as Model 2401-ECA, but without audible & visual alarm

