

Model 2401-P Pocket Size Multi-Purpose Count Ratemeter



Ludlum Measurements, Inc.

Features

- Self-contained Survey Instrument
- Integrated GM Pancake Probe
- Simple to Use
- Low Cost
- Rugged

Introduction

The Model 2401-P instrument is a general purpose, self-contained, pocket-sized radiation detection meter designed around the venerable GM pancake detector. A simple switch allows the user to choose among the three ranges. Another switch selects between QUIET (click-per-event audio off), NORMAL, BAT CHECK, or OFF. The detector is conveniently packaged inside the instrument, and has a protective screen window. This instrument is available with several meter face options for measuring contamination and exposure rate.



Specifications

Part Number: 48-2875

INDICATED USE: alpha, beta, gamma survey

DETECTOR: 15 cm² (2.3 in²) pancake GM

SENSITIVITY: typically 3300 cpm/mR/hr (¹³⁷Cs gamma)

EFFICIENCY: 5% for ¹⁴C; 22% for ⁹⁰Sr/⁹⁰Y; 19% for ⁹⁹Tc; < 1% for ^{99m}Tc, 32% for ³²P; 15% for ²³⁹Pu

ENERGY RESPONSE: energy dependent

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

METER DIAL: 0-6.6k cpm; 2.0 mR/hr; 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: no

FUNCTION & RANGE	METER FACE PART NUMBER
COUNTRATE	
0-500 cpm	202-916
EXPOSURE RATE	
0-0.15 mR/hr	202-994
0-1.5 mSv/h	202-999
COUNTRATE / EXPOSURE RATE	
0-500 cpm / 0-0.15 mR/hr	202-857
0-1.65 kcpm / 0-0.5 mR/hr	202-992
0-6.6 kcpm / 0-2 mR/hr	202-850
0-10 cps / 0-1.9 μSv/h	202-872
0-6.6 kcpm / 0-20 μSv/h	202-1038

Meter Faces:

Specify desired meter face at time of order.

Others Available:

Ludlum Measurements manufactures other versions of this Pocket Size Ratemeter that measure other types of radiation, include audible, visual, or audible and visual alarms, and feature different capabilities in the same convenient, rugged, self-contained size.

Learn more at www.ludlums.com