



DETECTION

Model 2402 Pocket Survey Meter



Features

- Uses GM or Scintillation Detector
- Audible & Visual Alarm
- Simple to Use
- Rugged
- Low Cost
- Indoor or Outdoor Use

Introduction

The Model 2402 is a pocket sized survey meter designed to quickly and easily measure ionizing radiation. It may be used with almost any external Geiger-Muller (GM) or scintillation detector. The instrument features user-adjustable calibration and alarm set point controls located under a protective cover on the front panel. This instrument is rated for indoor or outdoor use within a temperature range of -20 to 50 °C (-4 to 122 °F). It may be certified for operation from -40 to 65 °C (-40 to 150 °F). Maximum relative humidity is 95% (non-condensing).



Ludlum Measurements, Inc.

Specifications

Part Number: 48-3087

INDICATED USE: general purpose survey

APPLICABLE DETECTORS:

Alpha Detection: Model 44-7, Model 44-9, Model 43-5, Model 43-92

Beta Detection: Model 44-6, Model 44-7, Model 44-9, Model 44-38

Gamma Detection: Model 44-6, Model 44-7, Model 44-9, Model 44-38

Alpha, Beta, and Gamma Detection: Model 44-7, Model 44-9

RANGE: 0–200 mR/hr

SENSITIVITY: detector dependent

ACCURACY: within 10% of true reading

ENERGY RESPONSE: detector dependent

OPERATING VOLTAGE: adjustable from 550 to 900 Vdc; internal HV adjustment potentiometer

RESPONSE TIME: typically 8 seconds from 10% to 90% of final reading

METER: 6.4 cm (2.5 in.) arc, 1 mA rugged analog meter

MULTIPLIERS: x1, x10, and x100

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

ALARM: Detected radiation in excess of the alarm point will trigger a red ALARM LED and a steady tone, whether in NORMAL or QUIET operating mode.

POWER: 9-volt battery; BAT CHECK position allows the battery condition to display battery level

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

CONSTRUCTION: drawn and cast aluminum with beige powder coat and printed 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

AVAILABLE OPTIONS: optional Belt Clip (Model L-4397-176), Handle (Model L-4397-165), Wrist Strap (Model L-4397-182), canvas Carrying Case (Model L-2310517) and air & watertight Case (Model L-2311119)