

Model 3 General Purpose Ratemeter

Radiation Detection for a Safer World



Ludlum Measurements, Inc.

FEATURES

- Supports GM, Proportional & Scintillation Detectors
- Rugged Construction & Low Price
- 4-Decade Analog Ratemeter
- Greater than 2000 Hour Battery Life
- Audio On-Off, BAT CHECK
- Options & Accessories for Multiple Applications

Introduction

This is Ludlum's best selling, general purpose, handheld analog ratemeter known for accuracy and long-lasting dependability. The analog meter comes in a variety of measurement ranges and units to support the external radiation detector selected.

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. The front-panel controls include a rotary switch for selecting the four-decade range, instrument shut-off, and battery test, an audio on/off switch, a fast/slow response switch, and a count reset button.

A one meter (39 in.) straight type detector cable with "C" style connector is included in the price of the instrument.

Specifications

COMPATIBLE DETECTORS: GM, proportional, scintillation

HIGH VOLTAGE: adjustable from 400 to 1500 Vdc

THRESHOLD: fixed at 40 mV \pm 10 mV

LINEARITY: within 10% of true value

CONTROLS:

- Rotary Selector Switch: off, battery check, range selections for x0.1, x1, x10, x100
- Reset: pushbutton to zero meter
- Response Switch: toggles between FAST (4 seconds) or SLOW (22 seconds) from 10% to 90% of final reading
- Audio Switch: on/off, built-in unimorph speaker, 60 dB at 61 cm (2 ft)
- Calibration Controls: accessible from front of instrument (protective cover provided)

CONSTRUCTION: cast and drawn aluminum with beige powder coating

METER DIAL: 0–2 mR/hr, or 0–500 kcpm, BAT TEST (others available)

DETECTOR CONNECTOR: type "C" series (others available)

TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F)

May be certified for operation from -40 to 65 °C (-40 to 150 °F)

POWER: two each "D" cell batteries (housed in externally accessible sealed compartment)

BATTERY LIFE: typically greater than 2000 hours with alkaline batteries (battery condition can be checked on meter)

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

Also Available:

Model 3A: Identical to Model 3, but with built-in audible and visual alarms (Part No. 48-1408)

Model 3-IS: Intrinsic safety rating for operating in hazardous areas (Part No. 48-3581)

Model 14C: Includes internal GM detector with range of 0–20 mSv/h (0–2000 mR/hr) (Part No. 48-1611)



Part Number: 48-1605



Model 3 face view