Model 3A
General Purpose Alarming Ratemeter

Radiation Detection for a Safer World

Ludlum Measurements, Inc.

FEATURES

- Supports GM, Proportional & Scintillation Type Detectors
- Audible & Visual Alarms
- Low Price
- Rugged
- 4-Decade Analog Ratemeter

Part Number: 48-1408

Introduction

This is identical to Ludlum's best selling, general purpose, Model 3 hand-held analog ratemeter with the addition of an audible and visual alarm. The 3A is likewise known for its 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 sealed battery compartment and accompanying metal handle offer an industrial robustness and quality that promote long-lasting protection and instrument life. 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 400-1500 Vdc
THRESHOLD: fixed at 40 mV ± 10 mV
LINEARITY: within 10% of true value
ALARM: indicated by red lamp on front panel and audio going to constant tone. The alarm circuit on the Model 3A is triggered by meter deflection.
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 3: Identical to Model 3A, but without the built-in audible and visual alarms (Part No. 48-1605)
Model 3-IS: Similar to Model 3, but with 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)

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