Model 19A MicroR Ratemeter



Features

- High Sensitivity to Gamma
- Analog Meter with Audible & Visual Alarms
- Range: $0-5 \mu Sv/h (0-500 \mu R/hr)$
- Rugged
- Splashproof Protection for Outdoor Use
- **CE Certified**



Introduction

The Model 19A is a highly sensitive portable survey meter with audio and visual alarm indicators. It employs an internally housed, 2.5 cm diameter by 2.5 cm thick (1.0 x 1.0 in.) Nal detector. The cast aluminum 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.

The front-panel controls include a rotary switch for selecting instrument On, Off, or BAT check, an Audio On/Off switch, and a pushbutton Alarm Reset. The alarm circuit is adjustable over the entire scale range. The Model 19A is a complete turn-key system, and includes two "D" cell batteries.

LUDLUM MEASUREM SWEETWATER, TEXAS

Specifications

Part Number: 48-2117

INDICATED USE: low-level (μR) gamma survey

DETECTOR: 2.5 x 2.5 cm (1 x 1 in.) (Dia x L) Sodium lodide (Nal[Tl]) scintillator **SENSITIVITY**: approximately 17,500 cpm/μSv/h (175 cpm/μR/hr) (¹³⁷Cs gamma)

ENERGY RESPONSE: energy dependent **LINEARITY**: reading ±10% of true value METER: 6.4 cm (2.5 in.) arc, 1 mA analog type

METER DIAL: 0–5 μSv/h (0–500 μR/hr) dual colored logarithmic scale, BAT TEST

ROTARY KNOB SELECTOR: Instrument Off, Battery Check, Instrument On

AUDIO: built-in unimorph speaker (greater than 60 dB at 0.6 meters [2 ft]) with ON/OFF switch

ALARM RESET: pushbutton to reset alarm

ALARM: 0 to off-scale (audio and visual indication when above alarm threshold)

CALIBRATION CONTROLS: accessible from front of instrument (protective cover provided)

WORKING ENVIRONMENT: splashproof shields for outdoor use

TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F), may be certified for operation from -40 to 65 °C

POWER: 2 each "D" cell batteries (housed in sealed compartment that is externally accessible)

BATTERY LIFE: typically 600 hours with alkaline batteries (battery condition can be checked on meter)

CONSTRUCTION: cast and drawn aluminum with beige powder coat paint

SIZE: 19.8 x 8.9 x 21.6 cm (7.8 x 3.5 x 8.5 in.) (H x W x L), with handle

WEIGHT: 2.1 kg (4.5 lb), including batteries

Options:

Shoulder Strap: Model L-4363-413 Lighted Handle: Model L-4464-154

Check Source (137Cs, 1 µCi): Model L-01-5196