

# MODEL 19 MicroR Meter



Part No: 48-1615

**INDICATED USE:** low level ( $\mu\text{R}$ ) gamma survey

**MEASUREMENT RANGE:** 0 - 50  $\mu\text{Sv/hr}$  (0 - 5000  $\mu\text{R/hr}$ )

**DETECTOR:** 2.5 x 2.5 cm (1 x 1 in.) NaI (TI) scintillator

**SENSITIVITY:** typically 175 cpm/ $\mu\text{R/hr}$  ( $^{137}\text{Cs}$  gamma)

**ENERGY RESPONSE:** energy dependent

**LINEARITY:** reading  $\pm 10\%$  of true value

**METER:** 6.4 cm (2.5 in.) arc, 1 mA analog type

**METER DIAL:** 0 to 25  $\mu\text{R/hr}$ , 0 to 50  $\mu\text{R/hr}$ , BAT TEST, High Voltage Test

## CONTROLS

- \* **ROTARY KNOB SELECTOR:** 0 - 25, 0 - 50, 0 - 250, 0 - 500, 0 - 5000  $\mu\text{R/hr}$ ; Instrument Off
- \* **RESPONSE:** toggle switch for FAST (4 seconds) or SLOW (22 seconds) from 10% to 90% of final reading
- \* **AUDIO:** built in unimorph speaker with ON/OFF switch (greater than 60 dB at 2 feet)
- \* **HIGH VOLTAGE:** push-button to display HV setting on meter
- \* **BATTERY:** push-button checks battery voltage
- \* **RESET:** push-button to zero meter
- \* **LAMP:** push-button to activate meter light
- \* **CALIBRATION CONTROLS:** accessible from front of instrument (protective cover provided)

**WORKING ENVIRONMENT:** splash proof shields for outdoor use

**TEMPERATURE RANGE:**  $-20\text{ }^{\circ}\text{C}$  to  $50\text{ }^{\circ}\text{C}$  ( $-4\text{ }^{\circ}\text{F}$  to  $122\text{ }^{\circ}\text{F}$ )

May be certified for operation from  $-40\text{ }^{\circ}\text{F}$  to  $150\text{ }^{\circ}\text{F}$  ( $-40\text{ }^{\circ}\text{C}$  to  $65\text{ }^{\circ}\text{C}$ ).

**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 polyurethane enamel paint

**SIZE:** 21.6 x 8.9 x 21.6 cm (8.5 x 3.5 x 8.5 in.) (H x W x L)

**WEIGHT:** 2.1 kg (4.5 lb) including batteries