



Ludlum

## Ludlum Model 19 MicroR/Ratemeter

Pine Item #51518

### DESCRIPTION:

The Model 19 is a highly sensitive gamma R/meter employing an internally housed, 2.5 cm diameter by 2.5 cm thick (1.0 x 1.0 in.) NaI detector. The measuring range is 0-50 v/h (0-5000 R/hr). The cast aluminum 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 five-decade range and instrument shut-off, an audio on/off switch, a fast/slow response switch, and pushbuttons for activating the meter lamp, high-voltage display, battery test, and count reset.

### CONTROLS:

- Rotary knob selector: 0-25, 0-50, 0-250, 0-500, 0-5000 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 0.6 meters [2 ft])
- High voltage: pushbutton to display hv setting on meter
- Battery: pushbutton checks battery voltage
- Reset: pushbutton to zero meter
- Lamp: pushbutton to activate meter light
- Calibration controls: accessible from front of instrument (protective cover provided)

**Contact a Pine branch near you to request a quote or place an order**

VISIT OUR U.S. AND CANADA WEBSITES TO FIND A BRANCH NEAR YOU

United States

[www.pine-environmental.com](http://www.pine-environmental.com)

Canada

[www.pine-environmental.ca](http://www.pine-environmental.ca)

## Product Specifications

<b>Indicated Use:</b>	low-level (R) gamma survey
<b>Measurement Range:</b>	0-50 Sv/h (0-5000 R/hr)
<b>Detector:</b>	2.5 x 2.5 cm (1 x 1 in.) NaI (TI) scintillator
<b>Sensitivity:</b>	17500 cpm/Sv/h (175 cpm/R/hr) (137Cs gamma)
<b>Energy Response:</b>	energy dependent
<b>Linearity:</b>	reading of true value
<b>Meter:</b>	6.4 cm (2.5 in.) arc 1 mA analog type
<b>Meter Dial:</b>	0-25 R/hr 0-50 R/hr BAT TEST High Voltage Test
<b>Working Environment:</b>	splashproof shields for outdoor use
<b>Temperature Range:</b>	-20 to 50 °C (-4 to 122 °F) may be certified for operation from -40 to 65 °C (-40 to 150 °F)
<b>Power:</b>	2 each cell batteries (housed in sealed compartment that is externally accessible)
<b>Battery Life:</b>	typically 2000 hours with alkaline batteries (battery condition can be checked on meter)
<b>Construction:</b>	cast and drawn aluminum with beige polyurethane enamel paint
<b>Size:</b>	15.2 x 8.9 x 21.6 cm (6.0 x 3.5 x 8.5 in.) (H x W x L) without handle
<b>Weight:</b>	2.04 kg (4.5 lb) including batteries



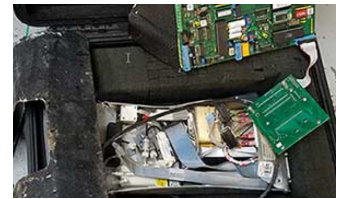
Local Delivery Pick-up



In-Stock Equipment



Repair & Calibration



Rental Protection Plan