

FIELD Environmental Instruments

Equipment Rental and Field Supplies

VICTOREEN

**Model 190
Radiation Monitor**

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The Victoreen 190 is a portable, battery-operated general purpose survey meter for use with most scintillation and Geiger-Mueller (GM) radiation detection, proportional counting probes, and neutron probes. The design combines CMOS microprocessor technology, automatic range changing, and a Liquid Crystal Display (LCD) into an easy to use instrument.

The 190 is housed in a light-weight, plastic case designed for portability and durability. Measurement results are indicated on the front panel LCD. The display includes:

- .. A 51-element analog bar graph near the top of the display to provide real time response.
- .. A scale multiplier, located below the bargraph, that relates the display units to the displayed bargraph value.
- .. Detector range bargraph consisting of five horizontal bars that indicate the quantity of the dynamic range of the detector in use
- .. A 16 character alphanumeric display that (1) provides a digitized average of the bargraph value or integrated reading with elapsed time, and (2) displays operational information (such as response time changes or changes in the units of display)
- .. A backlight, activated by either of two front panel switches, that provides for operation in dark environments

SPECIFICATIONS

Operating Range:	0.001 mR/hr to 1 R/hr or 1 to 1,000,000 cpm
Accuracy:	Within 10% of reading between 10 to 100% of full scale
Ranges:	6 decades are available for calibration; (detector dependent)
Deadtime Correction:	Provided above 1000CPM
Jam Detection:	Adjustable level for determining jam condition; provided in probe adapter modules
Alarm:	Can be set on any decade at 10% to 100% (in increments of 10%) of full scale
Warm-up Time:	15 seconds (diagnostic testing)
Power Source:	Four 9-volt alkaline batteries
Operating Time:	200 hours

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