

FIELD Environmental Instruments

Equipment Rental and Field Supplies

VICTOREEN

Ion Survey Chamber Meter Model 450B

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The Model 450 Ion Chamber Survey Meter is a lightweight hand-held, battery operated unit designed to measure alpha above 4 MeV, beta above keV, and gamma and x-ray radiation above 7 keV, using the latest CMOS and LCD technology.

The unit is auto-ranging and auto-zeroing. The meter measures exposure and exposure rate, and can hold the maximum exposure rate encountered.

SPECIFICATIONS

Radiation Detected:	Alpha above 4 MeV; Beta above 100 keV; Gamma & X-ray above 7 keV
Operating Ranges:	0 to 5 mR/h (0 to 50mSv/h) 0 to 50 mR/h (0 to 500mSv/h) 0 to 500 mR/h (0 to 5 mSv/h) 0 to 5 R/h (0 to 50 mSv/h) 0 to 50 R/h (0 to 500 mSv/h)
Accuracy:	+/- 10% of reading between 10% and 100% of full scale indication on any range, exclusive of energy response (Calibration source is 137Cs)
Detector:	200cc volume air ionization chamber; Conductive plastic chamber wall 200mg/cm2 thick. Chamber window is 1.7mg/cm2 mylar
Warm-up Time:	Less than one minute for initial operation when the instrument is in temperature equilibrium with the surrounding area.
Drift:	After seven minutes operation, 0.1 mR/h equivalent, or less
Response Time:	Time measured from 10 to 90% of final value for a step increases/decrease in radiation rate such that a range change does not occur: 0 to 5 mR/h (0 to 50mSv/h) range: 8 seconds 0 to 50 mR/h (0 to 500mSv/h) range: 2.5 seconds 0 to 500 mR/h (0 to 5 mSv/h) range: 2 seconds 0 to 5 R/h (0 to 50 mSv/h) range: 2 seconds 0 to 50 R/h (0 to 500 mSv/h) range: 2 seconds Note: In a pulsating field, the instantaneous rate should not exceed 50 R/h for proper integration; instantaneous exposure rate is still limited to 50 R/h
Precision:	Within 5% of reading
External:	On/ Off button, Mode button
Automatic Features:	Ranging and zeroing are fully automatic
Environmental Effects:	Operating Temp Range: -4 to 122°F (-20 to +50°C) Relative Humidity Range: 0 to 100%, non-condensing Geotropism: Less than 1%
Dimensions:	8"L x 4"W x 6"H (20cm x 10cm x 15cm)
Weight:	Approximately 1 lb., 6 oz (0.57kg)
Batteries:	Two 9V-transistor batteries provide over 200 hours continuous operation Two AAA batteries provide power for the Sylvania PR4, miniature flanged light in the handle

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Visit us soon on the web
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**Inquiries and
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