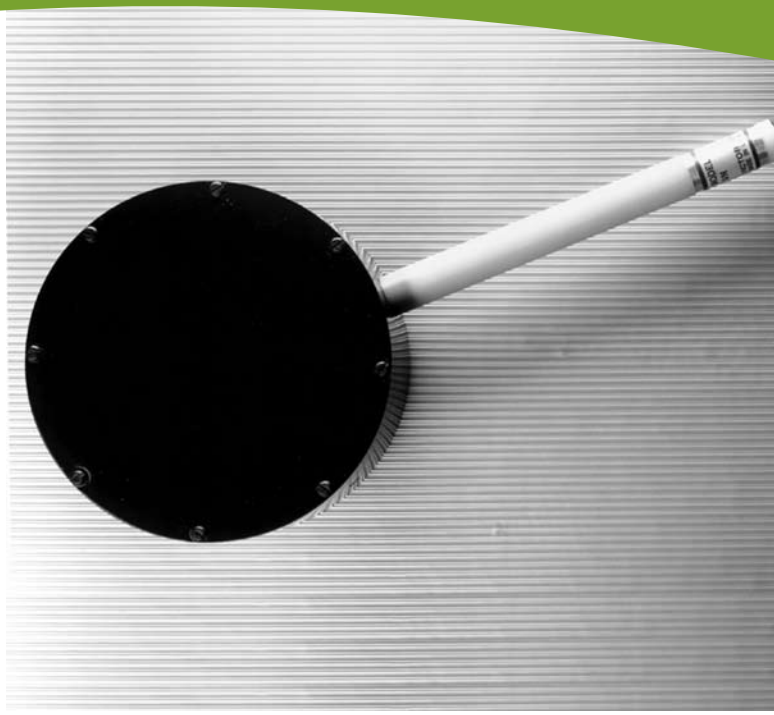


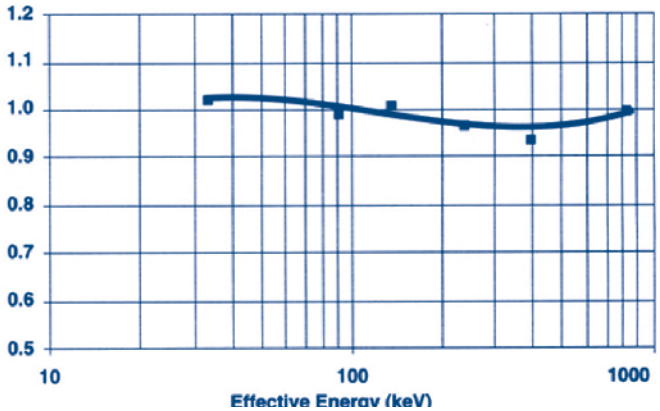
Model 6000-532B
Scatter Dose Probe

The Model 6000-532B Scatter Dose Probe consists of a plane-parallel ionization chamber with a volume of 400 cc and a frontal area of 100 cm². The primary purpose of the probe is to measure x-ray leakage and scatter in diagnostic x-ray facilities.

The Model 6000-532B is intended to be used with the NERO®mAx beam analyzer. It may also be used with Models 4000+, 4000M+ or the RADCHECK® PLUS using the appropriate sensitivity correction factor. The large chamber volume of 400 cc delivers a strong 0.133 nC per mR.

CNMC can supply an appropriate connector and/or adaptor to make the Model 6000-532B compatible with any high-grade, commerciallyavailable, charge-reading dosimetry electrometer.

Model 6000-532B Energy Response



Features:

- 100 cm² window surface area
- Designed to measure scatter with Model NERO® mAx, 4000+ and 4000M+ Non-invasive X-Ray beam analyzers

Specifications

Chamber volume: ..... 400 cc nominal
Sensitivity: ..... 0.133 nC/mR, nominal
Energy response: ..... Within ±5%, 40 - 662 keV
Minimum detectability:
Rate: ..... 1 mR/h 3% 1s
Exposure: ..... 3 µR 3% 1s in 10s
Chamber diameter: ..... 12.7 cm (5 in)
Window thickness: ..... 0.78 mm phenolic, 124 mg/cm²
Window area: ..... 100 cm²
Cable: ..... 3 meters (10 ft), triaxial, terminated with coaxial BNC for signal, banana plug for bias (triax BNC optional)
Dimensions:
Chamber: ..... 12.7 cm dia. x 4.6 cm (5 in dia. x 1.8 in)
Stem: ..... 20.3 cm long (8 in)
Weight: ..... 225 g (8 oz)

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