



RC6

GENERAL PURPOSE X-RAY MEASUREMENTS

The RC6 is an unsealed cylindrical 6 cm³, general-purpose ion chamber, designed for general purpose x-ray measurements. It has excellent energy response throughout the diagnostic energy range and with an appropriate build-up cap (optional), the energy range can be extended to ⁶⁰Co.

EXPOSURE RATE DEPENDENCE:	<5% to 150 mGy/s, up to 4 Gy/s for 10 ms pulses
ENERGY DEPENDENCE:	±5%, 30 keV to 1.33 MeV (with build-up material)
BIAS:	Nominal +300 VDC (max +600 VDC)
ELECTRICAL LEAKAGE:*	<5e-15 A with +300 VDC bias, using 2m triax cable extension
CONSTRUCTION:	Guarded (3-terminal) concentric cylinder with polycarbonate walls and conducting graphite interior coating. Nominal 6 cm ³ active volume; 0.05 kg

* cable length dependent

Nominal Chamber Volume and Sensitivity (±10%)



