



RC1800

Low Dose Rate Radiation Applications

The RC1800 is an unsealed cylindrical 1800 cm³ ionization chamber intended for low dose rate radiation applications such as shielding leakage, low-level irradiator output or environmental measurements.

EXPOSURE RATE DEPENDENCE: <5% to 50 uGy/s, <10% to 160 uGy/s (bias +300 VDC)

ENERGY DEPENDENCE: ±5%, 33 keV to 1.33 MeV

BIAS: Nominal +300 VDC (max +600 VDC)

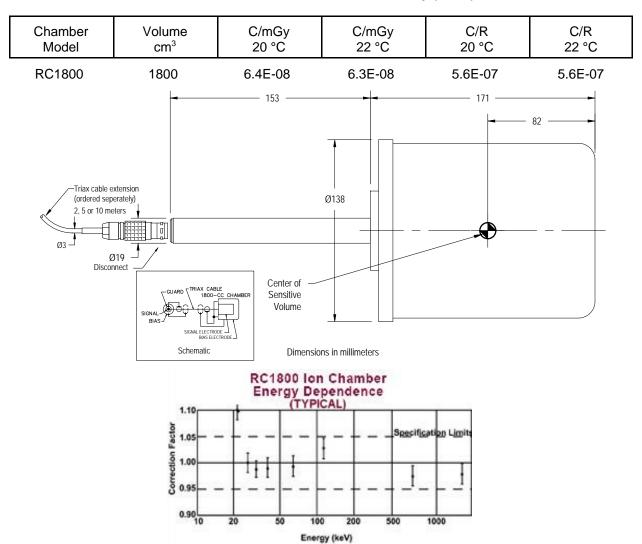
ELECTRICAL LEAKAGE:* <1e-14 A with +300 VDC bias, using 2m triax cable extension

CONSTRUCTION: Guarded (3-terminal) parallel plate, polycarbonate walls and

electrode; conducting graphite interior and exterior coating;

nominal 1800 cm³ active volume; 0.54 kg

Nominal Chamber Volume and Sensitivity (±10%)



^{*}cable length dependent