

50450

Gamma compensated neutron ionization chamber

GENERAL SPECIFICATIONS

MAXIMUM LENGTH (INCH/MM)	9.35/237.5
MAXIMUM DIAMETER (INCH/MM)	3.5/89.0
EFFECTIVE LENGTH (INCH/MM)	6.13/155.8
CATHODE MATERIAL (INTERNAL/EXTERNAL)	Aluminum
FILL GAS	Hydrogen
FILL PRESSURE (TORR)	750
EFFECTIVE VOLUME (CM ³)	104
OUTER CASING MATERIAL	Aluminum
ANODE CONNECTOR	HN

OPERATING CHARACTERISTICS

RECOMMENDED OPERATING VOLTAGE (VOLTS)	500
OPERATING TEMPERATURE RANGE °C	-50 to +100

NEUTRON SENSITIVITY (AMPS/NV)	5.65E-15
MAXIMUM OPERATING VOLTAGE (VOLTS)	800
GAMMA SENSITIVITY (A/R/HR - CO60)	3.0E-12
RESISTANCE - SIGNAL ELECTRODE TO CATHODE (OHMS)	>1.0E13
RESISTANCE - HV ELECTRODE TO CATHODE (OHMS)	>1.0E10

NEUTRON SENSITIVE MATERIAL

COATING MATERIAL	B10
ENRICHMENT (%)	96
COATED THICKNESS (MG/CM²)	0.59
COATED AREA (CM²)	450

