

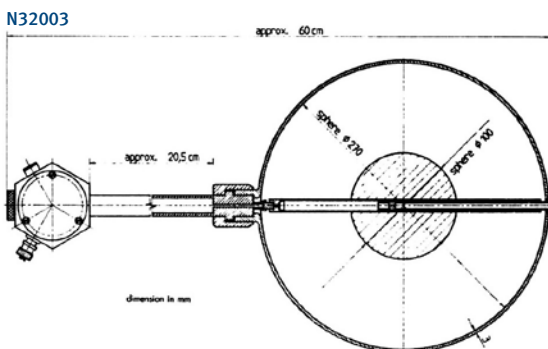
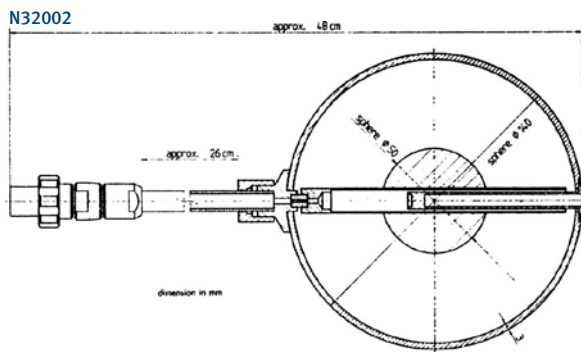
PTW Spherical Ionization Chambers

Model N32002, 1 Liter Volume Model N32003, 10 Liter Volume

These low-level, spherical ionization chambers are particularly useful whenever it is necessary to accurately evaluate weak radiation fields, providing dependable service as low level area monitors and in conducting surveys. When used with a sensitive electrometer, ionization currents resulting from natural background radiation are easily measured. The rigid stem provides a convenient means of mounting the chamber.

Features:

- ▶ Uniform omnidirectional response
- ▶ Fully guarded
- ▶ Suitable for Health Physics low level measurements
- ▶ Available in 1 liter and 10 liter size



Specifications:	N32002	N32003
Volume:	1,000 cc	10,000 cc
Sensitivity:	0.33 nC/mR	3.3 nC/mR
Wall material:	Delrin (POM CH ₂ O)	
Wall thickness:	3 mm	
Wall Density:	470 mg/cm ²	
Chamber inside diameter:	140 mm	270 mm
Electrode material:	Polystyrene, graphite coated	
Electrode dia. (spherical):	50 mm	100 mm
Leakage current:	<10 fA	
Maximum bias:	400 V	
Ion transit time:		
300 V	53 ms	0.22 s
400 V	40 ms	0.16 s
Maximum rate for 99.5% ion collection efficiency:		
Cont. 300 V	12 R/h	800 mR/h
Cont. 400 V	20 R/h	1.4 R/h
Pulsed, 300 V	50 uR/pulse	20 uR/pulse
Pulsed, 400 V	100 uR/pulse	30 uR/pulse
Stem length:	26 cm	20.5 cm
Connector:	Triaxial BNC	