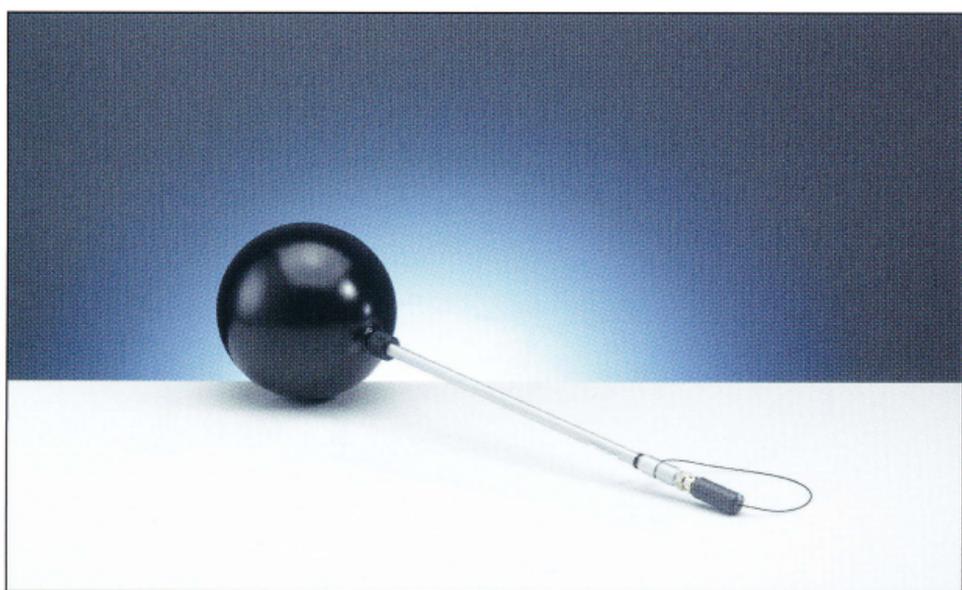


# 1 Liter Spherical Ionization Chamber



*Spherical ionization chamber for radiation protection level and low level measurement*

## Features

- ▶ Vented sensitive volume of 1 liter
- ▶ Suitable for survey meter calibration and low level measurements
- ▶ Superior energy response, reproducibility, directional dependence and long-term stability

Superior features make the chamber suitable as a standard chamber for calibration purposes. It fulfills the requirement for excellent reproducibility and long-term stability of the sensitive volume. The spherical construction ensures a nearly uniform response to radiation from every direction. The energy response is very flat within  $\pm 1.3\%$  in the energy range from 45 keV to 1.3 MeV. This is achieved by the thin layer of aluminum on the inner wall surface, which provides for an increased photoelectric yield to compensate for the absorption of soft X-rays. The chamber wall is made of graphite coated polyoxymethylene (Delrin) with 3 mm thickness.

The spherical chamber model 32002 is designed for the measurement of ionizing radiation in the protection level range from 0.1 mSv/h to 0.3 Sv/h. The outer chamber diameter is 140 mm. The spherical electrode of 50 mm diameter, made of graphite-coated polystyrene, is located in the center of the chamber sphere.

The chamber is supplied in a custom built case of 530 mm x 190 mm x 190 mm external dimensions to protect them.

## Ordering Information

*Spherical chamber with BNT, TNC or M connector*  
32002 Spherical 1 liter chamber LS-01

## Option

T48001 Radioactive check source holding device

- ▶ UNIDOS Dosemeters *pages 13 and 138*
- ▶ Radioactive Check Device *page 23*