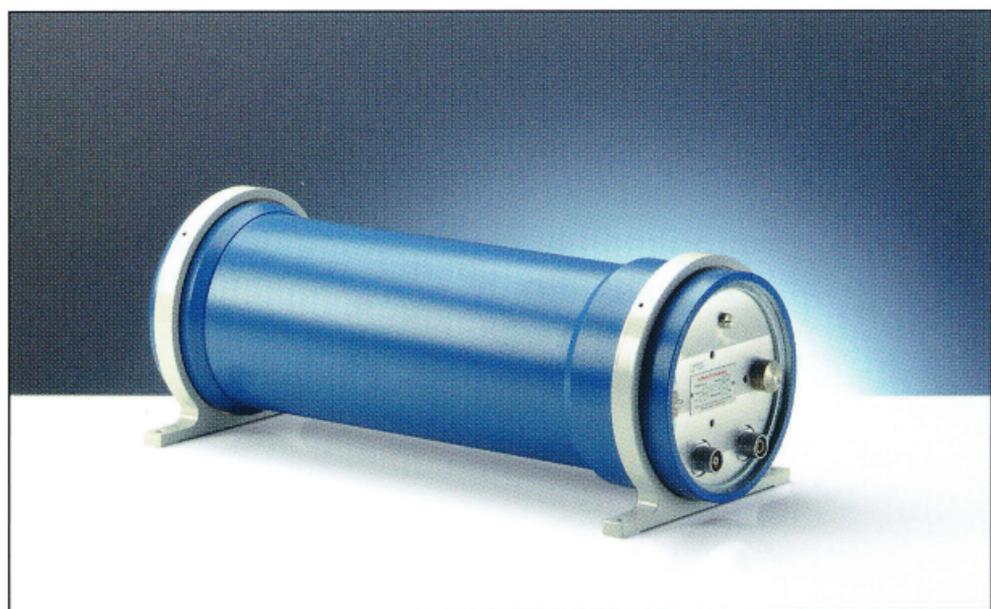


50 Liter Chamber for Radiation Monitoring



Cylindrical pressurized steel ionization chamber for stationary gamma radiation monitoring

Features

- ▶ Sealed sensitive volume of 50 liters
- ▶ Suitable as stationary radiation monitoring chamber
- ▶ Gamma energy range 80 keV to 1.3 MeV

The ionization chamber T7262 has a constructive volume of 5 liters filled with Argon gas at the pressure of 10 bar, resulting in an effective measuring volume of 50 liters. This superior design makes the chamber very sensitive and enables performing low level gamma radiation measurements down to the natural radiation background. The chamber is used as highly sensitive stationary surveillance device for environmental radiation monitoring. The response is $2 \cdot 10^{-3}$ C/Sv. The maximum dose rate at 90 % saturation is 10^{-2} Sv/h. The chamber is fully guarded up to the measuring volume. Since the sensitive volume is sealed, no air density correction is required.

The cylindrical 50 liter chamber is made of steel with 3.25 mm wall thickness and a 3 mm aluminum cover. The ion-collecting electrode is made of brass. The external chamber diameter is 195 mm and the length is 538 mm. The chamber is supplied with two coaxial Fischer connectors for the transfer of the measuring signal and the polarizing voltage. Via an optional adapter cable of 1.5 m length, the chamber can be connected to a dosimeter with M connector, which has input circuits on ground potential. The maximum length of an extension cable is 100 m. The maximum chamber polarizing voltage is 1000 V.

Ordering Information

T7262 Radiation monitoring chamber 50 l

T7262A Radiation monitoring chamber 50 l with integrated adapter for check device T48010

Option

T7262/U10-1.5 Connection cable with M connector, length 1.5 m

- ▶ UNIDOS/UNIDOS E Dosimeters *pages 13 and 138*
- ▶ Radioactive Check Device *page 23*