

0.1 Liter Chamber for Radiation Monitoring



Cylindrical Al chamber for stationary and mobile radiation monitoring of high level gamma radiation

Features

- ▶ Vented sensitive volume of 102 cm³
- ▶ Suitable as radiation monitoring chamber
- ▶ Rigid construction for wall mounting
- ▶ Gamma energy range 80 keV to 1.3 MeV

The 0.1 liter chamber is used for environmental radiation monitoring. The rigid and compact construction makes the chamber suitable for stationary radiation monitoring as well as for mobile operation in vehicles. Due to its small size, the chamber only requires little space. The chamber is designed to measure very high dose rates of up to 4000 Sv/h (90 % saturation) as they may occur after nuclear accidents. The response is $3 \cdot 10^{-6}$ C/Sv. Since the sensitive volume is open to the surroundings, air density correction is required for precise measurement. The chamber is fully guarded up to the measuring volume.

The cylindrical chamber is made of aluminum with 4 mm wall thickness. The ion-collecting electrode is made of aluminum too. The external chamber diameter is 60 mm and the length is approx. 150 mm. For the transfer of the measuring signal and the polarizing voltage, the chamber is supplied with two coaxial Fischer connectors. 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 500V.

Ordering Information

T32001 Radiation monitoring chamber 0.1 l

Option

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

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