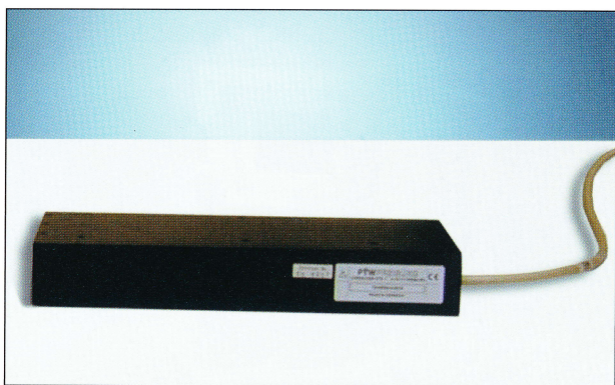


XLS Chamber for X-Ray Leakage System



Rectangular ionization chamber for radiation leakage measurements of diagnostic X-ray installations

Features

- ▶ Vented sensitive volume of 300 cm³
- ▶ Highly sensitive for detection of X-ray leakage radiation
- ▶ Up to 18 chambers can be arranged for radiation leakage detection around X-ray tubes

The rectangular plane parallel XLS ionization chamber is used for the XLS X-ray leakage system. The central electrode has an active area of 20 cm x 5 cm. The electrode is made of polycarbonate PC (Makrolon) with a graphite layer. The chamber response is approx. 10 $\mu\text{C}/\text{Gy}$. The external chamber dimensions are 225 mm x 90 mm x 35 mm. The dose rate measuring range of the chamber connected to the XLS electronic devices is from 0.15 mGy/h to 30 mGy/h, and the chamber current measuring range is from 0.4 pA to 100 pA.

Up to 18 chambers can be mechanically arranged on a semicircular arch of 1 m radius according to IEC. The X-ray tube is positioned on a rotatable table and - while the table is continuously rotated - the XLS leakage system monitors the dose rate of all detectors and records the radiation levels of the entire hemisphere around the X-ray tube. The rotatable table and the chamber fixation parts are neither part of the XLS chambers nor the XLS X-ray leakage system.

The individual response and the long-term stability of the chambers can be checked by means of an appropriate adapter between a radioactive check source type T48010 or T8921/8922 and the chambers type TA34055-0.

Ordering Information

TA34055-0 XLS Ionization chamber

T26014-15 Chamber connection cable, 15 m length

T26014-30 Chamber connection cable, 30 m length

Option

T48011 Chamber adapter for radioactive check source

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