

# XLS

## X-Ray Leakage System



### *Multi-channel dosimeter for radiation leakage measurements of diagnostic X-ray installations*

#### Features

- ▶ Measures dose and dose rate at 18 locations around diagnostic X-ray tubes simultaneously
- ▶ High sensitivity and excellent long-term stability
- ▶ Complies with IEC 60601-1-3<sup>1</sup>
- ▶ Full software control via the RS232 interface

Manufacturers of diagnostic X-ray tubes must ensure that the leakage radiation emitted by the tube outside the useful beam does not exceed certain levels provided by law or by standards such as IEC 60601-1-3<sup>1</sup>. The XLS X-ray leakage system is an effective device to fulfill these requirements. The XLS Measuring unit consists of a specialized MULTIDOS multi-channel dosimeter and an 18 channel measuring extension to connect up to 18 XLS ionization chambers. The system measures dose and dose rate or charge and current of all 18 chambers simultaneously. The maximum and minimum measuring results are displayed together with the channel numbers. The integration time for dose and charge measurements can be selected between 1 second and 18 hours. A built-in high voltage supply for 400 V chamber polarizing voltage is included in the base unit. The measuring results of all chambers can be read via an RS232 interface. The chamber calibration factors are stored in the device and can be read and modified via the serial interface.

<sup>1</sup> IEC 60601-1-3 Medical electrical equipment - Part 1 General requirements for safety - 3. Collateral standard: General requirements for radiation protection in diagnostic X-ray equipment

#### Ordering Information

T11036 XLS Measuring unit

T26014.1.001-15 Cable set, 15 m length

T26014.1.001-20 Cable set, 20 m length