



SL Survey Detector

Radiation detector for scatter and leakage measurements

Highlights

- ▶ Measures dose, dose rate, irradiation time and dose rate waveform
- ▶ Selectable units: air kerma [Gy], exposure [R] and ambient equivalent dose H*10 [Sv]
- ▶ Selectable time base: [1/s], [1/min], [1/h]

The SL Survey Detector is a radiation detector for scatter and leakage measurements for usage in combination with the NOMEX® Dosimeter (T11050). It bases on semiconductor technology and can be used within the X-ray energy range (33 keV ... 1.33 MeV).

Scatter radiation measurements as well as air kerma measurements due to leakage radiation, typically measured at 1 m distance from the focal spot of the X-ray tube, can be performed with the SL Survey Detector efficiently. When measuring the ambient equivalent dose rate, a tone, proportional to the dose rate, is audible.

The detector comes calibrated for the radiation qualities N40 ... N120. After a measurement the data can be stored, analyzed or exported to e.g. Track-it via the NOMEX® Software.

Specification

Application	radiation detector for scatter and leakage measurements for usage in combination with the NOMEX® Dosimeter
Data analysis	via NOMEX® Software
Measuring quantities	air kerma, air kerma rate, exposure, exposure rate, ambient equivalent dose H*10, ambient equivalent dose rate
Reference quality	N qualities
Energy response	≤ ± 15 % for N40 ... N120
Measuring ranges: Dose Resolution	2 µGy ... 3 mGy 1.5 pGy
Dose Rate Resolution	2 µGy/h ... 1.1 mGy/h, 10 nGy/h
Useful ranges: Radiation quality Temperature	33 keV ... 1.33 MeV (10 ... 40) °C (50 ... 104) °F
Humidity	(10 ... 80) %, max 20 g/m ³
Cable length	2.5 m
Weight	216 g
Outer dimensions	215 mm x 57 mm x 18 mm

Ordering Information

T60021 SL Survey Detector