



instadose™
dosemeter



sck cen

For over 50 years, SCK•CEN has been your experienced and reliable partner in dosimetry. We offer personal dosimetry to ensure that the radiation doses received by your employees during their work does not exceed the statutory limit of 20 millisievert per year. For this we provide various types of dosimeters depending on your needs and requirements.

Recently we have also started offering Instadose dosimeters from Mirion Technologies.

Instadose saves time and money

You do **not have to return** the dosimeters monthly

The Instadose dosimeters are miniature ionisation chambers that measure themselves the dose received. The readout device is built into the dosimeter, so doses can be read on site. As a result, your employees do not have to exchange their dosimeters every month – they can keep wearing the same ones.

Dosimeters are worn and read **in various locations**

Employees who work in various locations are often assigned several dosimeters to ensure that nothing goes wrong when collecting the dosimeters at the end of the month. Given that they can be read anywhere, they can take the dosimeters to other workplaces. Problems arising from dosimeters being handed in late are therefore a thing of the past.

You can read doses at set times and **upon request**

We program a weekly readout frequency but you can manually add other readouts at the press of a button. The button is located on the back of the dosimeter.

The dosimeter **can be assigned to someone else after use**

After each readout, you can link the dosimeter to another wearer using the web application. This allows the number of dosimeters required for temporary workers or visitors to be reduced.

Instant results

The Instadose dosimeter communicates by means of Bluetooth Low Energy (BLE) technology, which allows it to forward data to the server in real time. These measurements are immediately included in an online report.

Data can be forwarded wirelessly using:

- An InstaLink Hotspot connected to the internet through Ethernet or Wi-Fi
- An InstaLink USB stick connected to the internet through a PC
- A smartphone application connected to the internet through Wi-Fi or 4G

Our Dosimetry Service verifies and validates all the monthly dose results.

Easy-to-use web application

You will always have access to our secure web application, the functionality of which includes:

- viewing monthly dose reports
- generating dose overviews in xls format
- viewing interim readouts
- requesting new dosimeters
- linking a dosimeter to a different person
- preparing dose reports for FANC

The web application is an extensive tool, but we also paid special attention to ease of day-to-day use during its development. The functions we offer have intuitive controls.



Two versions

	Instadose+	Instadose2
Radiation type	Photons	Photons
Measured quantities	$H_p(10)$	$H_p(10)$ and $H_p(0.07)$
Dose range	80 μ Sv – 1 Sv	80 μ Sv/150 μ Sv – 1 Sv
Energy range	24 keV – 1.25 MeV	24 keV – 1.25 MeV
Angle range	-60° to +60°	-60° to +60°

Quality assurance and accreditation

The SCK•CEN Dosimetry Service is accredited by BELAC in accordance with ISO 17025 and the dosimeter complies with the ISO 62387 standard. We also follow the recommendations in EC publication RP160, "Technical Recommendations for Monitoring Individuals Occupationally Exposed to External Radiation". Since early 2018 we have been accredited by BELAC for use of the Instadose+ dosimeter, and FANC has also approved this dosimeter for use. The Instadose may therefore legally be used by employees as an official dosimeter.

The reported values can be traced back to international standards. Daily checks and periodic calibrations of the readout devices and dosimeters are provided for quality assurance. We monitor our overall performance using a dummy client. We participate in all international EURADOS comparison tests and all our results, including those of the Instadose dosimeters, have been very good so far. These results are also available upon request.

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