



# CERN PERSONAL DOSIMETER

At CERN, exposure to ionizing radiation (gamma, beta, and particle radiation) is linked to working near a particle accelerator, near experimental equipment and with radioactive sources handling. The dose received by workers exposed to ionizing radiation at CERN is monitored using personal dosimeters. **Every person working at CERN in a classified area or with sources of ionizing radiation must wear a CERN dosimeter. Pregnant women are not authorized to work in radiation areas. Please announce your pregnancy as soon as possible to the CERN medical service or to your home institute.**

The CERN dosimeter records your exposure, but does not protect you from ionizing radiation. You must follow the rules for working in the area and use the protective equipment at your disposal.

The CERN dosimeter must only be used for monitoring personal exposure and never to "measure" the dose or activation of sources or radioactive pieces of equipment.



## How to wear your dosimeter?

- On your chest.
- On top of your own clothing or protective clothing.
- The window of the dosimeter must face outwards and nothing must cover it.

## Recommandations

- Do not wear your CERN dosimeter in another laboratory.
- Do not remove the dosimeter components from the holder.
- Do not leave your dosimeter in sunlight for long periods.
- Do not take your dosimeter with you to appointments at the doctor or dentist.
- Do not expose your dosimeter to X-rays during baggage checks (for example at the airport).

## Monthly dose reading

Every user of a CERN dosimeter must read it at least once per month. Regular reading is vital to ensure periodic personal dose monitoring. Reading dosimeters is mandatory as CERN has to send a monthly dose report to the Authorities. If the dosimeter is not read for 3 consecutive months, we will consider the dosimeter as lost and the access rights of the person concerned will be suspended.

## Annual exchange of the dosimeter

After a year of use, your CERN dosimeter must be replaced. You will receive a warning email. You have one month to return your dosimeter. After this delay, we will consider the unchanged/unreturned dosimeter as lost.

## Replacement of a damaged/lost/stolen dosimeter

If the dosimeter is broken, lost, stolen or has got wet, please go to the Dosimetry Service to report it and replace it. The damaged/lost/stolen dosimeter should be paid by the Department/employer (CHF 350.-).

**I confirm I have taken possession of a dosimeter. I have read the rules for using it and accept them. I will respect CERN's safety rules and in particular the rules on radiological safety detailed in Code F (CERN's Radiation Protection Manual EDMS: 335729).**

Date :

Name :

Signature :

CERN ID:



## CERN PERSONAL DOSIMETER

The CERN dosimeter combines a semi-active detector for measuring the gamma/beta radiation based on "Direct Ion Storage" technology (DIS) and a passive detector for measuring the neutron dose.



You can read the gamma dose recorded by your CERN dosimeter as often as you like at any one of the 45 reading stations at CERN. **You must read it at least once per month.**

Insert the black part of the dosimeter in the slot in the front of the reader and after a few seconds your personal dose will be displayed on the screen. Remove your dosimeter after reading the dose.

### Please return unused dosimeters

Persons leaving CERN for a period of more than one month should return their dosimeter to the Dosimetry Service. A dosimeter can be obtained from the Dosimetry Service upon return without any further administrative steps or advance steps, as long as the assignment conditions are still met.

The Dosimetry Service strongly discourages having dosimeters read by third parties or secretariats during long absences (more than one month). During a long-term absence, the dosimeter may be used by other users, considerably reducing the overall costs for CERN.