



**MIRION**  
TECHNOLOGIES

# DOSICARD™ System – Dosimetry System Tailored for Your Applications

## Features

The basic dosimetry system called DoseManager II consists of:

- Multiple of individual DOSICARDs
- A badge reader that connects wireless via two infrared couplers and the serial link to a PC
- The Windows® based DoseManager II software allows for the simple programming of the DOSICARD with card data, personal data of the bearer and to set thresholds for alarms. It comprises a compiled ACCESS database. The access to the DoseManager software is password protected and several security levels are possible

## Description

The electronic personal dosimeter in credit card format, DOSICARD, is the key element in a unique modular dosimetry system that can be adapted to your individual needs (see DOSICARD data sheet).

The DOSICARD can be used as a stand-alone personal dosimeter, in small nuclear and medical laboratories as well as by large service companies in the nuclear sector, in nuclear research centers, accelerators and nuclear power plants.

The DoseManager System is a small system designed for an easy deployment.

The DOSICARDs can be linked via a badge reader to a PC. The DoseManager software is required to program the cards for data retrieval and for database (ACCESS) operations.

### DoseManager II System

The data stored in the DOSICARD is stored in parallel in the database. From time to time the DOSICARD is read out and the measured dose values are transferred to and updated in the database. The complete dosimetric history of the card holder can be examined, analyzed and even be graphically displayed.

The data stored in each DOSICARD and the corresponding entries in the DoseManager ACCESS database are as follows:

- Badge information: badge number, calibration date, battery change date, validity date, self test.
- Personal data of the bearer: ID number, name, company data, medical records, working authorization and validity, doses received before using the DOSICARD.
- Badge configuration data: "Permanent" mode or "Timer" mode, alarm thresholds on current, daily, monthly, or quarterly dose and doserate.
- Cumulative doses for monthly, quarterly, yearly, five years and life time, time-stamped exceedings of alarm thresholds, special events.

Several badge readers can be used (one per PC) on different locations and can store dose information on the same shared database on a network (path of the database access in one "INI" file).



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## Two operating modes for the DOSICARD are possible

1. **“Permanent” mode:** dose measurements are made continuously.

Direct Access Level: display of integrated dose within a user selectable time interval (START-STOP), instantaneous doserate and cumulative current day dose, display of alarm thresholds and the possibility to modify them, according to badge configuration.

Password Protected Access Level: display of complete dosimetric file with cumulative doses for monthly, quarterly, yearly and five year period.

This mode corresponds perfectly well with the needs of a workforce that intervenes at different sites.

A monthly readout (quarterly readout minimum) of the acquired data is recommended for updating the database.

2. **“Timer” mode:** the DOSICARD is active only in a preprogrammed daily time interval that usually corresponds to the working hours of the bearer.

The autonomy of the DOSICARD is increased accordingly.

Direct Access Level: display of integrated dose within a user selectable time interval (START-STOP), instantaneous doserate, cumulative current day dose; display of alarm thresholds and the possibility to modify them according to badge configuration.

Password Protected Access Level: display of the complete dosimetric file with cumulative doses for a monthly, quarterly, yearly and a five year period.

## Specifications

### Electrical/Mechanical

#### Badge reader LCB

Wireless communication with the DOSICARD via a bi-directional infrared link that transmits even through the plastic badge pocket.

Serial RS-232 link to any personal computer, cable supplied:

- 1.5 m length cable, SUB-D 9-point connector.
- Dimensions: 188 x 150 x 50 mm; mass 0.6 kg.

#### Installation

- The small DoseManager II System can be easily installed by the customer.

#### Ordering References

- DOSICARD/E badge (English version) – EM41277.
- DOSICARD/F badge (French version) – EM41994.
- LCB badge reader – EM41561.
- DOSEMANAGER II – DM2/E (English version) – EM76104.
- DOSEMANAGER II – DM2/F (French version) – EM76100.



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