

## DMC 2000 X



detection

radiation



- operational dosimetry for commercial, research, civil and defense personnel working with ionizing radiation sources
- operational dosimetry of medical personnel during X-rays monitoring and isotopic preparations

**Pass-by Data Exchange**  
**Economical**  
**Rugged**  
**Compact**

The DMC 2000 X measures, stores and displays deep dose equivalent Hp(10). It features a flat response over all practical X-rays and gamma rays range. The unit's top mounted LCD clearly displays dose or dose rate for deep dose equivalent.

- can be used in autonomous mode or integrated into a dosimetry system
- shared or individually assigned use
- tracking by area or sub-area
- history including localization
- audible and visual alarms
- self-testing
- uses a standard battery
- remote dosimetry, extremity measurements, and can be used as an area monitor
- compatible with DMC 100/90, LDM 91/101, CDM 21



## physical characteristics

- conforms with CEI 1526
- display units: mSv, mrem
- measurement range:
  - dose: 1  $\mu$ Sv to 10 Sv (0.1 mrem to 1000 rem)
  - rate: 0.1  $\mu$ Sv/h to 10 Sv/h (0.01 mrem/h to 1000 rem/h)  
display: 0.01 mSv/h to 10 Sv/h (1 mrem/h to 1000 rem/h)
- linearity:
  - < +/- 10 % up to 1 Sv/h (100 rem/h)
  - < +/- 25 % up to 10 Sv/h (1000 rem/h) for X,  $\gamma$  > 60 keV
- energy response:
  - X,  $\gamma$  rays: 20 keV to 6 MeV
- accuracy:
  - < +/- 5 % (  $^{137}\text{Cs}$ , 0.2 mSv/h; 20 mrem/h )

## electrical characteristics

- LiMnO<sub>2</sub>, CR2450 battery, 9 months battery life with 10% alarm time

## mechanical characteristics

- dimensions: 3.3" x 1.9" x 0.7" (84 x 48 x 17.5mm)
- weight with battery: < 2.2 oz (56 g)
- worn by a detachable clip

## environmental characteristics

- temperature: 14°F to 122°F (-10°C to +50°C)
- humidity: < 90 % at 108°F (42°C)
- storage: -22°F to 160°F (-30°C to +71°C)
- shock, vibration and drop resistant
- EMC: conforms with and exceeds CE standards
- weatherproof version

## customization

- setup can be accessed by user with DOSIMASS software

## options, accessories

- LDM 91/101 adapter sleeve
- compact transmitter CTM 2000
- interface module (AM 16)
- PEA 2000 (Pocket External Alarm)

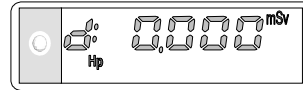
## related products

MGP Instruments offers a line of products which can be used with the **DMC 2000 X** to create integrated dosimetry systems. This product line includes :

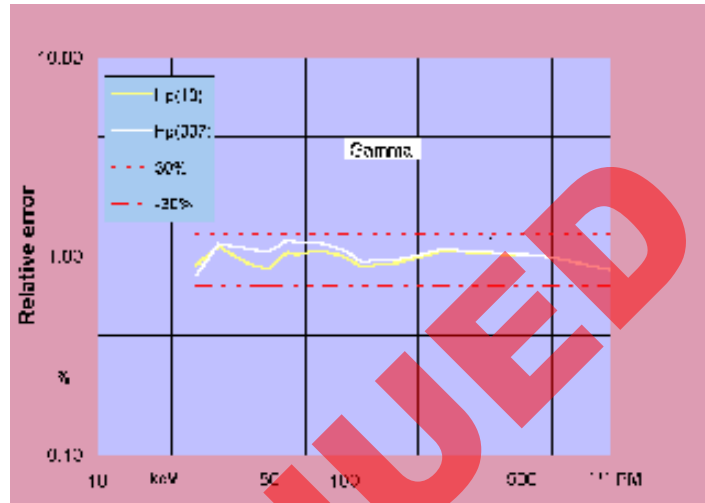
- LDM 2000 : pass by data exchange
- DOSVIEW : dosimetry centralization and access control software
- DOSIMASS : dosimeter configuration software
- DMC 100/90 : electronic dosimeters
- LDM 91/101 : dosimeter readers
- CDM 21 and IRD 2000 dosimeter calibrator

(documentation is available upon request)

With the **display directly visible** to the wearer, many functions are available using alphanumeric characters.



Hp(10) - deep dose



The **pass by data exchange feature** gives unequalled operational flexibility:

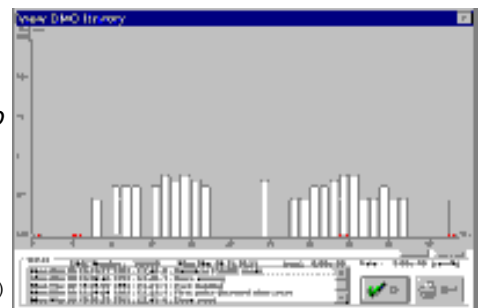
In motion reading allows dose management by sub-zone, as well as real-time location tracking of personnel, all without placing any restrictions on the dosimeter wearer.

- dosimeters can be read even when placed under protective clothing
- bi-directional transmission and protection against interference
- identifies and transfers dosimeter data up to 3 people passing by the LDM 2000 reader's field
- typical range 1.2 m (4'), 2.4 m (8') with LDM 2000 + external antenna



The **history** enables events to be reconstructed in detail, allowing the circumstances surrounding incident situations to be analyzed.

- more than 700 steps of histogram saved to non-volatile memory (EEPROM) with increments of 10s, 1 min., 10 min., or 24 hours (for Hp(10) only)



Due to evolutions in standards and equipment, the information provided is subject to change without notice. Please contact us for confirmation.

