



FEATURES

The DMC 2000 X is an X-ray and gamma detection dosimeter, featuring dose rate and programmable alarms. The DMC 2000X is user friendly, lightweight and water resistant.

- Can be used in autonomous mode or integrated into a dosimetry system
- Audible and visual alarms
- Detection active self-test
- High autonomy
- Integrated history
- Hand free communication, pass-by data exchange
- Compact, rugged and economical

DMC 2000X Personal Electronic Dosimeter

For operational dosimetry in medical environment (radiology, nuclear medicine,...), the DMC 2000X has become the reference due to the quality of its response to X and Gamma radiations associated with its real immunity to electromagnetic fields.

The DMC 2000X is also the best choice for industrial operators working with ionizing sources, and in certain cases for the nuclear industry, civil defense...

RELATED PRODUCTS

MGP Instruments offers a range of products which can be used with the DMC 2000X to create integrated dosimetry systems including:

- LDM 220, LDM 230 proximity readers
- LDM 2000 pass-by data exchange
- DOSISERV dosimetry centralization and access control software
- DOSIMASS dosimeter configuration software
- DOSICARE and DOSIFAST operational dosimetry software
- IRD 2000 irradiator for dosimeters

health physics

A Mirion Technologies Division

Featuring:



PHYSICAL CHARACTERISTICS

- Compliant to IEC 1283, ANSI 4220A, IEC 61526 Ed1
- Measurement and display:**
- display units: mSv, μ Sv or mrem
- dose: 1 μ Sv to 10 Sv (0.1 mrem to 10 rem)
- display rate: 0.01 mSv/h to 10 Sv/h or 0.001 mSv/h to 10 Sv/h (extended option)
- measurement range: 0.1 μ Sv/h to 10 Sv/h
- Linearity:**
- < \pm 20% up to 1 Sv/h (100 rem/h)
- < \pm 30% up to 10 Sv/h (1000 rem/h)
- X and Gamma energy range: 20 keV to 6 MeV
- Accuracy: < \pm 10% (137Cs, 30 mSv/h, including \pm 5% of extended uncertainty K=2)

ELECTRICAL CHARACTERISTICS

- LiMnO₂ standard CR2450 battery: battery life over 9 months (8h per day in run mode)

MECHANICAL CHARACTERISTICS

- Dimensions: 87 x 48 x 28 mm (3.4 x 1.9 x 1.1 in) with clip
- Weight with battery: < 59 g (2 oz)
- Worn by a replacable clip

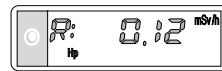
ENVIRONMENTAL CHARACTERISTICS

- Temperature range: -10°C to 50°C (14°F to 122°F)
- Humidity: < 90 % at 42°C (108°F)
- Storage: -30°C to 71°C (-22°F to 160°F)
- Shock, vibration and drop resistant, water resistant IP 42
- EMC: complies and exceeds CE standards by a large margin



CUSTOMIZATION

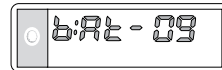
- Setup can be accessed by user with DOSIMASS software



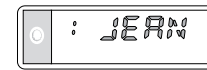
Dose rate display



Dose and alarm



Low battery: 9 hours remaining

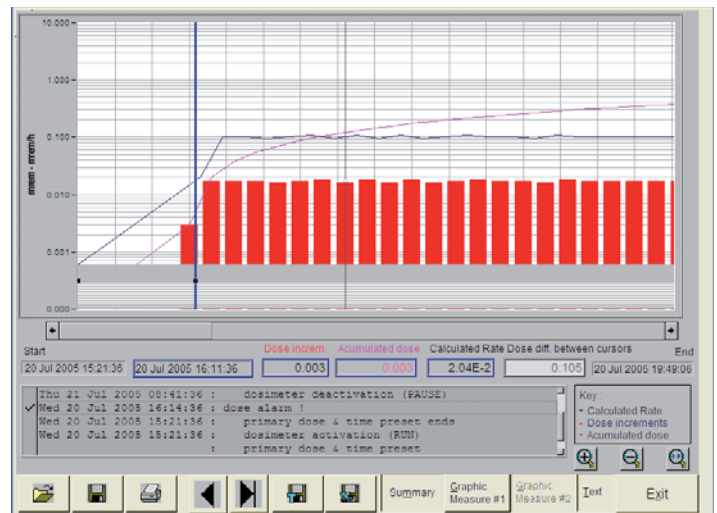


Dosimeter assignment: name or employee ID#



Accumulated dose display

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



The histogram enables events to be reconstructed in detail. Radiological supervisors can then analyze the data surrounding an incident.

- Histogram are saved to non-volatile memory (EEPROM)
- workers dose stored in increments of 10 s, 1 min, 10 min or 24 hours with compression of consecutive zero dose intervals
- Event log (alarms, faults, changes) marks events during the selected time period
- Time and data of passage with sub-zone notation
- Stores data for several consecutive workers' entries and exits (up to 700 steps version 2 and up to 3800 steps version 3)



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