



DMC 2000 GN

Personal Electronic Dosimeter

- Real time separate Gamma and neutron dose, dose rate and alarms
- Full neutron energy range coverage
- Very good gamma rejection in neutron channel
- Audible and visual alarms
- Very large autonomy
- Hand free, pass-by exchange
- Fully compatible with DMC2000 hand free readers and dosimetry software

The DMC 2000 GN takes advantage of a unique licensed neutron detection technology based on a large single diode. The full energy range of thermal, intermediate and high energy neutrons is covered with a high sensitivity and very good gamma rejection, tested to 6 MeV.

In addition, a gamma section identical to the proven solution of the DMC 2000 S, allows to measure the gamma dose from 50keV to over 6 MeV gamma range with a unique linearity to over 10 Sv/h.



Neutron dose display



Neutron dose rate display



Front view



rear view with the clip

Histogram available with Dosimass software

Physical Characteristics

- Compliant to IEC61526 Ed2 for gamma and neutron
- Display units : mSv or mrem
- Neutron measurement:
 - dose display: 1 μ Sv to 10 Sv (0.1 mrem to 1000 rem)
 - measurement range: 10 μ Sv to 10 Sv (1 mrem to 1000 rem)
 - dose rate display: 10 μ Sv/h to 10 Sv/h
 - energy range: 0.025 eV to 15 MeV
- Gamma measurement:
 - dose display: 1 μ Sv to 10 Sv (0.1 mrem to 1000 rem)
 - rate display: 0,1 μ Sv/h to 10 Sv/h (0.01 mrem/h to 1000 rem/h)
 - energy range: 50 keV to 6 MeV
 - linearity: $< \pm 10\%$ up to 1 Sv/h (100 rem/h)
 $< \pm 25\%$ up to 10 Sv/h (1000 rem/h)

Electrical characteristics

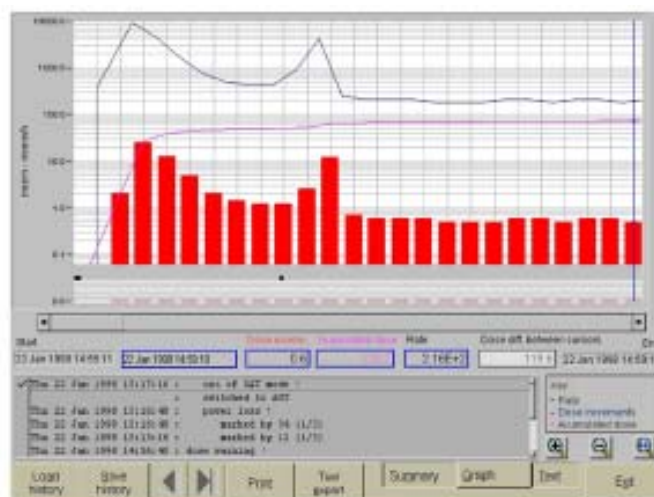
- Standard calculator battery LiMnO2 CR2450
- 6 months battery life on continuous use

Mechanical Characteristics

- Dimensions (l x w x h):
3.4 x 1.9 x 0.85 in (87 x 48 x 21 mm) without clip
- Weight: 2.8 oz. (80 g) with battery

Environmental Characteristics

- Temperature range: 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
- Waterproof



The histogram enables Neutron and Gamma doses, events, to be reconstructed in detail (4000 steps of 10s, 1min, 10min, 1h or 24h). Radiological supervisors can then analyze the data surrounding an incident.

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