

Electronic Dosimeters

Advanced Real Time Dosimeter Technology



Features:

- Real-time dose and dose rate
- Small and lightweight- only 56 grams
- Solid State (silicon diode) detector
- One year battery life - 2000 hours
- Audible and visual alarms
- Internal memory (Histogram)
- Self testing battery, detector, and parameters
- Durable case of high resistant ABS Plastic
- Optional Dosimeter Reader available
- Optional Teledosimetry unit available

GDS offers a trio of dependable real time electronic dosimeters for immediate radiation monitoring detection. These sturdy dosimeters respond accurately to nuclear plant environments where immediate personal monitoring is crucial. A top mounted LCD display clearly shows dose or dose rate.

The DMC 2000 S features flat energy response to X-rays and gamma fields from 50 keV to 6 MeV. The enhanced DMC 2000 X measures, stores, and displays deep dose equivalent Hp (10) and features a flat response over all practical X-ray and gamma ray ranges. The fully-featured DMC 2000 XB simultaneously measures, stores, and displays both deep dose equivalent Hp (10) and shallow dose equivalent Hp (0.07), as well as, covers a flat response over all practical X-ray and gamma ray ranges.



Application

- Real-time personnel and area monitoring
- Standalone device or integrated into a dosimetry system

Specifications: DMC 2000S, 2000X and 2000XB

Mechanical characteristics	DMC 2000S and the 2000X: Conforms with IEC 1283, ANSI 42 20A 2000XB: Conforms with IEC 1526 Display units for 2000S, 2000X, and 2000XB: mSV or mrem Measurement range for 2000S, 2000X and 2000XB: Dose: 1 μ Sv to 10 Sv (0.1 mrem to 1000 rem) Rate: 0.1 μ Sv/h to 10 Sv/h (0.01 mrem/h to 1000 rem/h) Display: 0.01 mSv/h to 1 Sv/h (1 mrem/h to 100 rem/h) Linearity for DMC 2000S, DMC 2000X and DMC2000XB: < +/- 10 % up to 1 Sv/h (100 rem/h) < +/- 25 % up to 10 Sv/h (1000 rem/h) Additional for the DMC2000XB: < +/- 25 % up to 3 Sv/h (300 rem/h) Energy response: DMC 2000S: Detects from 50 keV to 6 MeV DMC 2000X: Detects from 20 keV to 6 MeV DMC2000XB: x, gamma rays detects from 20 keV to 6MeV β Emean > 60keV (Emax: 0.22meV to 2.3meV) Accuracy for DMC 2000S, DMC 2000X and DMC2000XB: < +/- 5 % (137Cs, 0.2 mSv/h; 20 mrem/h)
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Environmental Characteristics	Temp -10°C to 50°C (14°F to 122°F) Humidity <90% at 42° < (108°F) Storage -30°C to 71°C (-22°F to 160°F) Shock, vibration and drop resistant EMC: complies with and exceeds CE Standards
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Electronic Readers

Easily Access Up-To-The-Minute Information Dosimeter Readers



Features:

LDM 210 and LDM 220:

- Can be used with DMC 2000 Series Dosimeters
- Pass by data exchange with range adjustment
- Access control by area and sub-area (with emergency operating mode)
- Dosimeter setup
- Acquisition of dose and dosimeter status
- Dosimeter identification for dose mapping

The LDM 210 (serial cable) and LDM 220 (USB cable) are RS232 Dosimeter Readers that connect to a computer to download information from any of the DMX 2000 Series Dosimeters. Compact with convenient indicator lamps for operation and access control, these non-contact dosimeter readers require no directional alignment and can be operated with a universal power supply or 2 AAA 1.5 V batteries for the LDM 210 or self powered through USB portion in the LDM 220.

LDM 210 and 220 readers are interfaces to activate or deactivate dosimeters when used with DosiMed or DosiFast software. DosiMass software, enable the readers to interface and read/write the internal data of a dosimeter.

Applications

LDM 210 and LDM 220

- Quick downloading of dosimeter data readings

Proven Expertise

With the rapidly changing pace of your business today, the need for radiation safety is greater than ever. GDS understands the importance radiation monitoring plays in your business and the importance of maintaining the health of your employees. Rely on the over thirty years of experience of GDS to provide the right monitoring products and reliable data collection specially tailored for your work environment.

Results You Can Trust

GDS products are currently being utilized wherever there is a potential for occupational radiation exposure – from private practitioner medical offices, dentists, veterinarians, hospitals and universities to large nuclear facilities. We can help you determine the right products for your business and provide accurate exposure reports to ensure the safety of your employees.

At GDS, customer satisfaction is our number one priority. Each day we strive to regularly exceed customer satisfaction and ensure that commitments are met on time, every time.

GDS offers:

- Accurate monitoring reports and permanent compliance documentation
- Access to highly qualified health physicists and radiation dosimetry experts
- Convenient badge data storage in underground archival retention vaults for easy and safe retrieval for our customers

Specifications: LDM 210 and LDM 220

Mechanical characteristics	LDM 210:	Length: 110 x 6 5x 28 mm Weight: 110g
Mechanical characteristics	LDM 220:	Dimensions: 70 x 80 x 32 mm Weight: 120 g
Electrical characteristics	LDM 210:	Universal power supply supplied Input: 90 to 265 VAC- 47 to 63 Hz Output: 9 V DC delivered with interchangeable US and Europe mains plug Consumption: typical 100 mA under 9 V Option (on request, please consult us) Power supply by 2AAA 1,5 V batteries Autonomy on batteries: typical 10 hours EMC: complies with and exceeds CE standards
Electrical characteristics	LDM 220:	Self powered through USB port EMC: complies with and exceeds CE standards
Environmental characteristics		Operating temperature: 0 to +50°C (32°F to 122°F) Storage temperature: -10°C to +60°C (+14°F to 140°F) Humidity: 90% HR (without condensation)
Communication with dosimeters		Short range high frequency bi-directional data exchange Nominal range: between 20 and 30 cm (7.87 and 11.81") Reduced range setting: between 5 and 20 cm (1.96 and 7.87")
Description		Two-color electroluminescent diode used as ON/OFF and data exchange indicator lamp. Two-color electroluminescent diode for READY/BUSY indication Two-color electroluminescent diode for ACCESS/NO ACCESS indication SUBD9 - pin female connector for RS 232 data link (only applies to the LDM210 only) JACK connector 5.5 mm x 2.1 mm for DC power supply (RS 232) (LDM210 only) 2 HE10, 2 x 7 - pin male connectors for 4 digital inputs and 4 digital outputs Software downloadable and saved in flash

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