

# DMC 2000

Personal Electronic Dosimeter

- **Accurate Dose And Dose Rate Measurement**
- **Pre-Set Audible And Visual Alarms**
- **Small Lightweight Design**



## PROTECTION BEGINS WITH DETECTION

The first step in providing hazard protection is the immediate detection of any radiological threat. With 40 years of experience, MGP Instruments provides a wide variety of specialized products designed to help you rapidly discover, precisely identify, and accurately analyze a nuclear threat. MGP is the world leader in operational dosimetry.

Currently in use by many fire and police departments throughout the United States, the DMC 2000S combines sophisticated technical measurements and ease-of-use to provide first responders with the confidence to go about their business while continuously monitoring for unexpected radiation fields. The DMC 2000S is small, lightweight, waterproof, and provides the most versatile personal dosimeter for any first responder.

Available options include visual alarm adapter, earphone adapter, and loud external alarm box.



## DMC 2000S



- X and Gamma energy Range: 60 keV to 6MeV
- Measurement range: dose: 0.1 mrem to 1000 mrem rate: 0.01 mrem/h to 1000 rem/h
- Linearity: < +/- 10% up to 100 rem/h < +/- 25% up to 1000 rem/h
- Accuracy: < +/- 5% (137Cs, 20 mrem/h, 0.2 mSv/h)
- Optional teledosimetry or use as an area monitor
- Waterproof
- Instant display
- Audible and visual alarm indicators
- Multiple warning and alarm threshold settings
- One-touch activation
- Used as a stand-alone device or integrated into a dosimetry system
- Internal memory "histogram"
- Self-testing (battery, detectors, parameters)
- Uses a standard calculator battery, with one year (2000 hours) life
- 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
- Dimensions (L x W x H) 3.3 x 1.9 x 0.7 in (84 x 48 x 17.8 mm)
- Weight: 2.0 oz. (58g) with battery
- Worn by a detachable clip

## DMC 2000XB



- X and Gamma energy Range: 20 keV to 6 MeV
- $\beta$ : Emean > 60 keV
- Measurement range: dose: 0.1 mrem to 1000 mrem rate: 0.01 mrem/h to 1000 rem/h
- Linearity: < +/- 10% up to 100 rem/h (1 Sv/h) < +/- 25% up to 1000 rem/h (10 Sv/h) for X, gamma and beta > 60 keV < +/- 25% up to 300 rem/h (3 Sv/h) for X < 60 keV
- Accuracy: < +/- 5% (137Cs, 20 mrem/h, 0.2mSv/h)
- Optional teledosimetry or use as an area monitor
- Waterproof
- Instant display
- Audible and visual alarm indicators
- Multiple warning and alarm threshold settings
- One-touch activation
- Uses a standard calculator battery, with one year (2000 hours) life
- 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
- Dimensions (L x W x H) 3.3 x 1.9 x 0.7 in (84 x 48 x 17.8 mm)
- Weight: 2.0 oz. (58g) with battery
- Worn by a detachable clip

## WRM<sup>2</sup>



- Transmit power output: 140 mW (900 MHz) 50 mW (2.4 GHz)
- Receiver sensitivity: -110 dBm (900 MHz) -105 dBm (2.4 GHz)
- Frequencies: 868 MHz, 925 MHz or 2.4 GHz spread spectrum hopper
- Range: 900 MHz unit: 1500' indoors-industrial environment 7 miles outdoors line-of-sight with standard dipole antenna up to 20 miles with high gain directional antenna
- 2.4 GHz unit: 600' indoors 3 miles outdoors line-of-sight with dipole antenna up to 10 miles w/ high gain antenna up to 2 miles in standard configuration with PAM-TRX and Base Transceiver
- **PAM-TRX**
  - Buzzer frequency: 2700±500 Hz
  - Buzzer sound level at 30 cm: at least 85 dB
  - RED LED viewing angle: ±145°(top and front)
  - Vibrator: Standard pager type
  - Ruggedness: 6 drops on concrete from 1.5 m
- **Base & Repeater**
  - LED viewing angle: ±145°from the top
  - Front panel controls: clearly labeled, protected from inadvertent operation
  - Ruggedness: 2 drops on concrete from 1.0 m with antenna
  - Attachments: rubber feet; magnetic mount

## Available Accessories:

LED



Earplug



PEA 2000



- Increases worker protection in high noise environments
- Supplements standard dosimeter alarm features
- Allows workers to wear telemetric devices and enhanced alarm functions simultaneously

# Nuke Safeguard

Miniature Rate Alarm Meter



1" x 1.5" x 0.475"; 1/2oz (25mm x 39mm x 12mm; 13g)

**DOSITEC®**

- Meets NCRP Management Of Terrorist Events Involving Radioactive Material Guidance And Recommendation
- Capable Of Detecting Very Small Amounts Of Radioactive Materials And Low Levels Of Radiation
- Detects: X And Gamma 20 keV +; Beta 600 keV +

## Features:

- Ideal device for detecting dirty bombs and other sources of radiation
- High performance tested using NIST traceable sources
- Meets EMC Directive Standards
- Easy to read, highly visible LED
- Economically priced

## Applications:

- First Responders
- Police
- Firefighters
- Military
- Medical Personnel
- Border Patrol
- Coast Guard
- Airport Personnel
- Couriers
- Postal Workers
- Customs and cargo inspectors



# Response Kit

RSCS Radiological Response Kit

- **Radiological Protection Designed For First Responders**
- **Includes Survey Meter And Personal Dosimeters**
- **Custom Designed To Fit Your Specific Application**



This kit has it all for first responders and is a must for all lead HAZMAT Teams. Teams will be able to don dosimeters and then conduct initial scene assessment and rescue operations with a NDS-200 series survey meter. Also included is the IOSAT KI pill to provide thyroid protection. Additional equipment includes radiological postings and labels to designate hazard areas. All of this is contained in a rugged 15" x 12" x 9" waterproof Pelican™ case. The standard kits listed below can be customized to fit your needs and budget.

## The Radiological Response Kit includes:

- 5 or 10 self reading pocket dosimeters
- 1 dosimeter charger
- 1 ND2001D durable radiation/contamination meter
- Radiological response gear (signs, barrier tape, etc.)
- 1 IOSAT KI pills (10 doses)
- 1 Rugged Pelican™ waterproof case

## The Deluxe Radiological Response Kit includes:

- 5 or 10 MGP DMC-2000S electronic alarming dosimeters
- 1 ND2001D durable radiation/contamination meter
- Radiological response gear (signs, barrier tape, etc.)
- 1 IOSAT KI pills (10 doses)
- 1 Rugged Pelican™ waterproof case

# Dosimetry

NVLAP Accredited Dose-Of-Record Devices

- **Film, TLD, Ring And Environmental Badges**
- **Fully Integrated Reports with RSM™**
- **Dose Reconstruction Services Available**



Global Worldwide Dosimetry Service is one of the world's largest providers of personnel radiation monitoring services. They have been in business for over thirty years and monitor over half a million radiation workers on four continents. They are the experts.

At RSCS, Inc., we are committed to providing our customers with the highest quality service available anywhere in the world, which is why we have teamed up with Global to offer you a wide variety of products and reports to best accommodate your needs.

RSCS, Inc., in cooperation with Global, is able to provide a special discount to our customers on most services & products offered by Global. Our staff is uniquely qualified to advise you on your dosimetry needs and help you select the most cost effective, efficient monitoring methods.

Tracking your personnel dose records is made easy with our RSM™ software. Dosimetry data is easily downloaded to RSM and can provide you with the reports and forms you need, eliminating double and triple entry. In addition we can provide internal / external dose calculations and dose reconstructions for all types of abnormal events.





# NDS ND-2RID

Portable Radiation/Contamination Survey Instrument

- **Heavy Duty, Water Resistant Survey Instrument**
- **High Range Gamma Radiation Detection Ability**
- **Provides Contamination Assessment Capability**



**NDS**  
PRODUCTS

## Looking For A Durable, Multipurpose Contamination/Radiation Meter?

This meter is rugged, dust proof and watertight with a five-range, (0-2000 mR/hr) dual detector. With this meter you get a compact, reliable survey tool. All switches are protected by boot covers and hex seals. All components are contained in a two piece nylon reinforced fiberglass case which protects your investment from environmental abuse.

### Accurately Assess Higher Radiation Levels.

With a Halogen quenched, energy-compensated GM tube for 0-2000 mR/hr range, you can assess radiation sources between 80-2000 keV accurately, without having to change detectors or the geometry of the position of the meter.

### Measure Contamination Levels Without Having To Change Detectors.

Equipped with a Neon and Halogen filled pancake GM tube that can detect 0-200, 0-20, 0-2 and 0-0.2 mR/hr ranges. It has an energy sensitivity for Alpha above 3.5 MeV, Beta above 35 keV, Gamma and X-ray above 6 keV. Also with meter scale in both mR/hr and cpm, you can determine contamination levels by direct frisk.



# NDS ND-200ID

Portable Radiation/Contamination Survey Instrument

- **Portable Heavy Duty Radiation/Contamination Survey Instrument**
- **Capable Of Detecting Alpha, Beta, Gamma And X-ray Radiation**
- **Ideal Instrument For Contamination Surveys Or Scene Contamination Assessment**



**NDS**  
PRODUCTS

## **A Versatile Radiation/Contamination Meter.**

This meter is rugged, dust proof and watertight with a four-range internal pancake survey meter. There is an individual calibration potentiometer for each range. The rugged two piece nylon reinforced fiberglass case and a 3.5" metal mil-spec meter movement ensures years of use.

## **Low Radiation Levels Easily Determined.**

With a Neon and Halogen filled pancake detector with ranges 0-200, 0-20, 0-2 and 0-0.2 mR/hr you can easily assess radiation levels. This meter can scale in both mR/hr and cpm.

## **Contamination Surveys And Scene Assessments.**

This meter can accurately assess Alpha above 3.5 MeV, Beta above 35 keV, and Gamma and X-ray above 6 keV. The Gamma sensitivity is 3600 CPM/mR/hr for Cs-137. It features an audible click style speaker with on/off switch and a fast/slow response switch.



# NDS ND-200PC

Portable Radiation/Contamination Survey Meter

- **Heavy Duty Radiation/Contamination Monitoring Device**
- **Capable Of Detecting Both Alpha And Beta Contamination**
- **Ideal Instrument For First Responder Scene Assessment**



**NDS**  
PRODUCTS

## **A Versatile Radiation/Contamination Meter.**

This meter is durable, dust proof and watertight with a four-range internal pancake survey meter. There is an individual calibration potentiometer for each range. The rugged two piece nylon reinforced fiberglass case and a 3.5" metal mil-spec meter movement ensures years of use.

## **Low Radiation Levels Easily Determined.**

With a Neon and Halogen filled pancake detector with ranges 0-200, 0-20, 0-2 and 0-0.2 mR/hr you can easily assess radiation levels. This meter can scale in both mR/hr and cpm.

## **Contamination Surveys And Scene Assessments.**

With a pancake probe you can survey hard to reach areas, faster. This meter can accurately assess Alpha above 3.5 MeV, Beta above 35 keV, and Gamma and X-ray above 6 keV. The Gamma sensitivity is 3600 CPM/mR/hr for Cs-137. It features an audible click style speaker with on/off switch and a fast/slow response switch.



# NDS ND-500P

Portable Radiation Survey Meter

- **Portable Heavy Duty Radiation Meter**
- **Capable Of Detecting Gamma, Beta And X-ray Radiation**
- **Ideal Instrument For Exact Location Of Radiological Sources**



**NDS**  
PRODUCTS

## **Economical Variable Energy Detection Meter.**

This meter is rugged, dust proof and watertight with four ranges and a side wall probe. It is very economical and easy to use. The rugged two piece nylon reinforced fiberglass case and a 3.5" metal mil-spec meter movement ensures years of use.

## **Perfect For Detecting Gamma, Beta and X-ray radiation.**

Ranges detected are: 0-500, 0-50, 0-5 and 0-0.5 mR/hr. Equipped with a Halogen quenched GM tube side wall probe, it can detect Beta radiation energy levels above 200 keV, Gamma and X-ray above 12 keV. The meter comes complete with the cable and probe which has a rotating Beta shield.

## **When You Need To Pinpoint Exact Locations Of Radiation Sources.**

Operators will be able to use the probe and rotating Beta shield to quickly and accurately assess the location of sources of radiation. It also provide the means to rapidly survey a general area for background radiation levels.



# NDS ND-2000

Portable Radiation Survey Meter

- **Heavy Duty, Watertight, Dustproof, Radiographic Survey Meter**
- **High Range Gamma Radiation Detection Ability**
- **Ideal Instrument For Radiography**



**NDS**  
PRODUCTS

## **The Standard For Radiographer Safety.**

This meter is rugged, dust proof and watertight. The two piece nylon reinforced fiberglass case has been drop tested from one meter in excess of twenty times with no damage or failures. It features a 3.5" metal mil-spec meter movement and geotropism in any orientation within 2% of full scale.

## **High Range Detection At An Economical Price.**

This meter can measure Ranges 0-1000, 0-100, 0-10 mR/hr and 1-10,000, 0-1000 and 0-100 uSv/hr. It can measure Gamma and X-ray from 80-2000 keV within 20%. When combined with the ruggedness of the unit, the ND-2000 provides a great value.

## **Multiple Options Available.**

Potential upgrade options include an internal click style audio speaker or a sun bright LED .

# RAM R-200

Multi-Purpose Survey Meter

- **Rugged Gamma Meter Designed For Measuring Wide Range Gamma Radiation Fields**
- **Alpha, Beta and Gamma Surface Contamination Detection Measurement**
- **Ideal Instrument For Taking Readings In Hard To Reach Areas**



## **A Reliable, Easy To Use Meter That Can Handle High Range Gamma Radiation Fields.**

Built to meet military specification, the R-200 provides two internal energy compensated GM detectors that can measure between 10  $\mu$ R/hr to 100 R/hr. An easy to use interface with large backlit digital display and audio indication makes the R-200 stand out in its field.

## **Portable With A Wide Array Of Attachment Options.**

External probes are easily connected and automatically self-tested. Features include detector identification and recording of internal detector dose accumulation. Smart probes allow operators to swap detectors without having to do any programming or change any settings, which increases efficiency and speed.

## **Safely Take Measurements While Maintaining Exposures ALARA.**

The R-200 can be used with an optional telescopic rod for the external gamma probe to provides safe measurements at a distance. Environmentally tested for sub-pressures, dust, shock, vibration, drop and splash to meet MIL-STD 810. Electromagnetic compatibility tested to meet MIL-STD 461.

For more information, visit us at [www.radsafety.com](http://www.radsafety.com).



# AT 138 / AT 730

Direct Reading Dosimeter

- **Economical Alternative To Electronic Dosimeter**
- **16 keV - 6 MeV Photon Energy Range**
- **Durable Construction, Lightweight And Water Submersible**



## **Time Tested Technology.**

Based upon technology developed for civil defense units, the AT series of Dosimeters is a vast improvement over other direct reading dosimeter. It can measure Gamma and X-ray radiation from 16 keV to 6 MeV and is housed in a hermetically sealed, very low permeability plastic. The readings are accurate within +/- 10% of true exposure with electrical leakage less than 1.0% of full scale for 24 hours at 50°C.

## **Economical Solution.**

For departments on a tight budget, the AT family offers a great solution. These rugged dosimeters do not require continuous investment in batteries and other peripherals like their electronic counterparts . A simple charger unit (sold separately) is the only accessory you need to get years of service.

## **Multiple Solutions For Your Specific Application.**

Depending upon your needs, the AT family of products offers many different types of solutions including:

AT-138: 0-200 mR  
AT-500: 0-5 mSV  
AT-730: 0-20 R  
AT-746 0-600 R