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## Radiological Response Kits

### SE 4 & MGP Rad Kit

SE Monitor 4 or 4 EC - Survey Meter & MGP Electronic Dosimeter  
Model 2000 S, X or XB

**Operational dosimetry for personnel  
working with ionizing radiations sources,  
Including:**

- Hazmat teams – First Responders
- Home use detection
- Commercial Nuclear Stations
- Medical & Research labs
- Fuel Processing plants
- Military applications

#### SE Monitor 4 or 4 EC- Survey Meter

**Detects: Alpha, Beta, Gamma & X-ray**

- Small handheld microprocessor based
- Analog readout
- Halogen-quenched uncompensated GM tube with thin mica window.
- Effective diameter of window is 45 mm (1.75 in)
- Uses 1 - 9-volt alkaline battery
- (more specifications on back)

#### MGP Model 2000 Electronic Dosimeter DMC Model S

**X-Ray and Gamma: 60 keV to 6 MeV**

#### DMC Model X

**X-ray & Gamma : 20 KeV to 6 MeV**

#### DMC Model XB

**X-ray, Gamma and Beta: 20 KeV to 6  
MEV**

(more specifications on back)



Dosimeter shown  
with holder attached  
to belt which allows  
viewing of readouts.



#### SE 4 & MGP Rad Kit

- 1 – SE Monitor 4 or 4 EC - Survey Meter & carrying case
- 1 – MGP Electronic Dosimeter & holder for carrying on belt or lanyard
- Extra Batteries
- Vinyl gloves & specimen bags
- Pelican carrying case
- Manuals

These kits can be custom configured to include more than 1 electronic dosimeter or type, or a different survey meter and other accessories.

**“Whatever you need . . .”**

#### Kit Specifications

- Pelican Case (Black, Yellow, Silver or Orange)
- Dimensions: 13” x 10” x 4.5 “
- Weight: 6 lbs. (includes everything in picture)
- Waterproof & Rugged

We accept Visa, MasterCard and American Express

## Electronic Dosimeter Physical characteristics

- Conforms with IEC 1283, ANSI 42 20A
- **Display units:** uSv,mrem or cGy
- **Measurement Range:**
- **Dose:** 1uSv to 10Sv (.1 mrem to 1000 rem)
- **Rate:** .1 uSv/h to 10Sv/h (.01 mrem/h to 1000 rem/h)
- **Display:** .01 mSv/h to 1 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 mrem/h )
- **Energy Response**
- Detects from 60 keV to 6 MeV
- **Accuracy**
- < +- 5% (Cs 137, .2 mSv/h; 20 mrem/h)

## Electrical Characteristics

- LiMnO<sub>2</sub>, CR2450 battery, one year battery life

## Environmental Characteristics

- **Temp:** -10C to +50C (14F to 122F)
- **Humidity:** <90% at 42C (108F)
- **Storage:** -30C to +71C (-22F to 160F)
- **Shock:** vibrations and drop resistant
- **EMF:** conforms with and exceeds CE standards
- Water proof

## Customization

- Setup can be accessed by authorized users with Dosimass software (LDM 101)

## Options, accessories

- AM/WRM Interface
- CTM 2000: Compact transmitter
- PEA-100 (Pocket External Alarm)



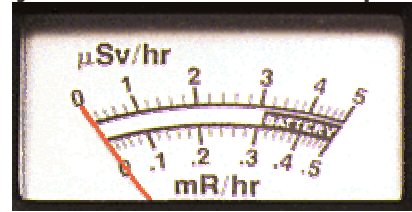
We can supply a complete line of products which can be used with the family of DMC 2000 electronic dosimeters to create an integrated dosimetry system.

## Monitor 4 & 4 EC - Survey Meter Physical characteristics

4 EC means Energy Compensated

Monitor 4EC Energy Sensitivity Same as Monitor 4 except:

The energy response for gamma and x-rays through the detector sidewall is flat within +61% or -26% over the range of 40 keV to 100 keV, and within +35% or -17% over the range of 100 keV to 1.3 MeV (referenced to Cs-137)



Optional SI meter scale:  
0-500  $\mu$ Sv/hr and  
0-50 mR/hr.

## Specifications

**Accuracy:**  $\pm$ 10% of full scale (referenced to Cs-137).

**Audio Indicator:** Internally mounted beeper. (can be switched off for silent operation)

**Range Switch:** X1, X10, X100, Battery Check.

**Operating Range:** 0-.5, 0-5, 0-50 mR/hr and 0-500, 0-5,000, 0-50,000 CPM

**Anti-Saturation:** Meter will hold at full scale in fields as high as 100 times the maximum reading.

**Power Requirements:** One 9 volt alkaline battery. Battery life is up to 2,000 hours at normal background radiation levels.

**Temperature Range:** -20° C to 55° C (-4° F to 131° F).

**Weight of the Monitor 4:** 178 grams (6.3 oz.) without battery

**Weight of the Monitor 4EC:** 198.1 grams (7 oz.) without battery

**Size:** 145 x 72 x 38 mm (5.7 x 2.8 x 1.5 in.).

**Includes:** Carrying Case, 1 year limited warranty, and CE mark

**Options:** Belt Clip

## Carrying Case:

Carrying case included with models M4, M4EC, M5, MC1K, Inspector, Digilert 50 and Geiger.

Carrying cases are equipped with belt clip or belt loop (Inspector, Digilert 50 and Geiger)



**Build your own Monitor 4!**

**Learn about how a geiger counter works.**

Monitor 4 kit includes: All parts required to build a Monitor 4, Assembly and Illustration booklets

Contact Arrow-Tech, Inc. for more information on our radiation products  
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