

ELECTRONIC DOSIMETER MODEL L36



OPERATION MANUAL



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INTRODUCTION

The L36 Miniature Electronic Dosimeter : accurate, reliable, rugged , lightweight and designed for nuclear industry, hospitals, radiologists, laboratories, schools and individuals.

The dosimeter contains an energy-compensated, solid-state Silicon Detector and employs a microprocessor to monitor the radiation rate and dose level. It has a 3-digit LCD display indication of the dose and/or dose rate. It also provides an audible alarm as well as a visible red LED as a warning indication.

Le Model L36 dosimeter uses a 3.6 Volt Lithium battery with 9 months battery life. The dosimeter case is made of high plastic and has an easily attached clip.

PARAMETERS SETTINGS

Dose alarm (μSv)	65000
Rate alarm ($\mu\text{Sv/hr}$)	65000
Remind time (minutes)	1900
Display mode (D,R or A)	alternating

OPERATION PROCEDURES

Follow these steps to use the dosimeter :

- 1 Review the dosimeter alarm settings.
- 2 Turn power on by depressing the On/Off switch near the clip.
The dosimeter parameters will be set accordingly and the LCD will display the dose received and/or the current dose rate.
- 3 The dosimeter is ready to use. Wear the dosimeter on the upper trunk facing out ; clip side is towards body.

CALIBRATION REQUIREMENT

The dosimeter is required to be recalibrated every six (6) months to three (3) years or as deemed necessary. Please contact us for quotation details.

BATTERY REPLACEMENT

Follow these steps to replace the battery :

1. Turn the battery cover set screw clockwise by using a standard jeweller's screw driver.
2. Remove the cover and replace the old battery with a new one
3. Reinstall the cover and slide the battery cover latch to lock the cover. The dosimeter is ready to use.

SPECIFICATIONS

DETECTION

Detector type	Energy-compensated solid-state Si-detector
Radiation	X and Gamma Ray
Energy response	$\pm 25\%$ from 60 keV to 6,2 MeV
Dose range	0 to 999 mSv with increments of 1 μ Sv
Dose rate range	0 to 250 mSv/hr with increments of 1 μ Sv/hr
Accuracy	$\pm 10\%$ from 1 μ Sv/hr to 1Sv/hr
Dose rate	< 5 seconds to reach 90% of new dose rate
Neutron	< 1% relative to ¹³⁷ Cs response

LCD DISPLAY (AUTO-RANGING)

Digit readout	μSv , mSv , $\mu\text{Sv/hr}$, or mSv/hr and BAT/LOW
Display mode	Programmable dose, dose rate or alternating (Reader and software Required)
Dose	0 to 999 mSv with increments of 1 μSv
Dose rate	0 to 250 mSv/hr with increments of 1 $\mu\text{Sv/hr}$

BATTERY

Battery	One 3,6 Volts, AA size Lithium battery
Battery life	9 months life when used 40hrs per week
Battery condition	BAT/LOW and LCD display, 12hrs remaining

ENVIRONMENTAL

	Up to 99%
Relative Humidity	-20°C to 52°C, less than 5% variation
Temperature	

PHYSICAL PROPERTIES

Serial number	6-digit visible bar codes and enclosed
Detector location	External markings on the side and back
Ruggedness	Meet ANSI N13.27-1981 drop test standards
Packaging and clip	High-impact plastic
Size	48mm x 70mm x 17mm
Weight	77 grams, including battery

All specifications subject to change without notice.