

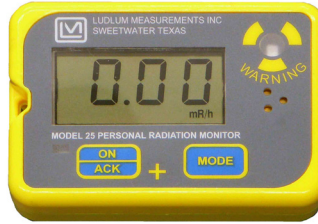
# Model 25 Series Personal Radiation Monitor



Ludlum Measurements, Inc.

## Features

- 9.99 Sv/h (999 R/hr) Range
- Lightweight
- Rugged Construction
- Shockproof
- Water Resistant Design
- Easy to Use
- 6000 Hour Battery Life
- Audible & Visual Alerts and Alarms
- Intrinsically Safe Versions Available



## Introduction

The Ludlum Model 25 series of Personal Radiation Monitor/Dosimeter are small sized devices that can be worn on the belt, a lanyard, or an armband. It is a very rugged, stand-alone device designed specifically to warn emergency response personnel of any dangerous radiation fields they may encounter. This instrument utilizes a GM detector capable of measuring radiation fields up to 9.99 Sv/h (999 R/hr). The unit is simple to use and read. The backlit LCD readout displays dose rate, accumulated dose, and time remaining to the dose limit. Visual and audible alarms are available over the entire measurement range. No special equipment is required to either calibrate or set up operational parameters. Model 25-IS & Model 25-IS-1 are certified for intrinsic safety for use in areas where explosion safety is a primary concern.

**NOTE:** Model 25 and Model 25-1 instruments are not intended to measure background levels of radiation

MODEL	DISPLAY RANGE	INTRINSICALLY SAFE	PART NUMBER
25	0.01 mR/hr to 999 R/hr	No	48-3584
25-1	0.001 mSv/h to 9.99 Sv/h	No	48-3629
25-IS	0.01 mR/hr to 999 R/hr	Yes	48-3661
25-IS-1	0.001 mSv/h to 9.99 Sv/h	Yes	48-3686

## Specifications

**DETECTOR:** internal energy-compensated GM

**ENERGY RANGE:** 60 keV to 2 MeV

**DISPLAY:** 3½ digit backlit LCD display with a total range from 0.01 mR/hr (or mR) to 999 R/hr (or R), 0.001 mSv/h to 9.99 Sv/h, also displays time remaining from 19:59 to 00:01 (in hh:mm format)

**ALERT & ALARMS:** adjustable over entire display range

**ALARM INDICATIONS:** distinct alerts and alarms for exposure and accumulated dose

**AUDIO:** built-in speaker (typically 95 dB at 0.3 m [1.0 ft])

**LOW BATTERY INDICATION:** provides 8 hours warning of low battery

**SELF-DIAGNOSTICS:** If no pulses are received from the detector in 60 minutes, instrument failure is indicated by an audible and visual alarm, and the display alternating between "0.0" and "F."

**CALIBRATION:** requires no tools or software

**CALIBRATION RANGE:** normally calibrated from 2 mR/hr (0.02 mSv/h) to 999 R/hr (9.99 Sv/h)

**GAMMA RESPONSE:** typically 18 cpm per mR/hr (1800 cpm per mSv/h)

**POWER:** 2 each lithium coin cell batteries

**BATTERY LIFE:** typically 6000 hours

**CONSTRUCTION:** injection-molded plastic housing with sub-surface printed membrane front panel, completely gasketed for water resistance, supplied with rubber boot and built-in belt feed-through

**TEMPERATURE RANGE:** -40 to 65 °C (-40 to 150 °F)

**SIZE:** 7.6 x 5.4 x 1.7 cm (3.0 x 2.1 x 0.69 in.) (H x W x D)

**WEIGHT:** 144 g (5.1 oz) including batteries

**INTRINSICALLY SAFE CERTIFICATION (Models 25-IS, 25-IS-1):** Class I, Division 1, Groups A-D, Class II, III, Division 1, Groups E, F, and G, T6 (UL 610-1/CSA C22.2 No. 61010-1, UL 913, CSA C22.2 No. 157)

**WARNING (Models 25-IS, 25-IS-1):** Use only DL2450 (NEDA / ANSI / IEC / #5029LC) coin cell batteries. To reduce the risk of ignition of a flammable or explosive atmosphere, batteries must be changed only in a location known to be a non-hazardous area.

**WARNING (Models 25-IS, 25-IS-1):** When repairing this unit, substitution of components may impair intrinsic safety.

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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