

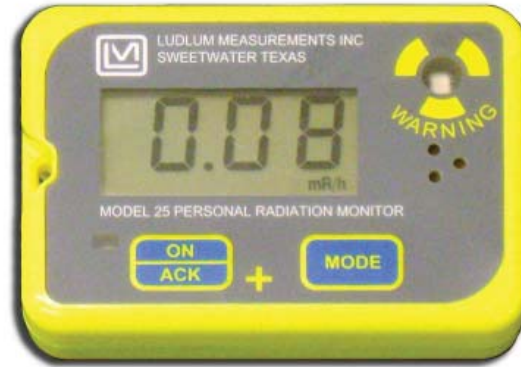
# MODEL 25 Personal Radiation Monitor



Ludlum Measurements, Inc.

## FEATURES

- ◆ Background to 1000 R/hr range
- ◆ Lightweight
- ◆ Rugged construction, shockproof, water resistant design
- ◆ Easy to use
- ◆ 6000 hour battery life
- ◆ Low cost
- ◆ Audible and visual alerts and alarms
- ◆ Intrinsically safe version 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 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 all the way from background up to 1000 R/hr (10 Sv/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 setup operational parameters. The Model 25-IS & 25-IS-1 are certified for intrinsic safety for use in areas where explosion safety is a primary concern.

MODEL	DISPLAY RANGE	INTRINSICALLY SAFE	PART NUMBER
25	.01 mR/hr - 1,000 R/hr		48-3584
25-1	.001 mSv/hr - 10 Sv/hr		48-3629
25-IS	.01 mR/hr - 1,000 R/hr	Yes	48-3661
25-IS-1	.001 mSv/hr - 10 Sv/hr	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 .01 mR/hr (or mR) to 1999 R/hr (or R), 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 1 foot)

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

**LOSS OF COUNT:** Detector failure results in a visual and audible warning

**CALIBRATION:** Requires no tools or software

**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

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

**SIZE:** 3.0"H x 2.125"W x 0.687"D (7.6 cm x 5.4 cm x 1.7 cm)

**WEIGHT:** 5.1 oz including batteries

**CERTIFICATION:** Models 25-IS and 25-IS-1 are intrinsically safe per the following:

- UL 913 Class I, II & III Division 1 Groups A,B,C,D
- CSA 22.22 No. 157
- UL 61010-1 CSA C22.2 No. 61010-1

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