

Model 25 Series Personal Radiation Monitor

Features

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



Model 25



Model 25-IS

Introduction

The Model 25 Series of Personal Radiation Monitors are small, rugged devices designed to warn emergency response personnel of any dangerous radiation fields that they may encounter. These easy-to-use instruments incorporate a GM detector capable of measuring radiation fields up to 9.99 Sv/h (999 R/hr).

The Model 25 Series backlit LCD readout displays dose rate, accumulated dose, and time remaining to the dose limit. Visual and audible alarms can be set over the entire measurement range. No special equipment is required to either calibrate or set up operational parameters.

Model 25-IS and Model 25-IS-1 are certified for intrinsic safety for use in areas where explosion safety is a concern.

The units can be worn on a belt, a lanyard, or an armband. A lanyard and a rubber boot with a built-in belt feed-through are included with each instrument. See our website for other available accessories.

NOTE: Model 25 Series instruments are not intended to measure background levels of radiation

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

Specifications

DETECTOR: Internal energy-compensated GM

ENERGY RANGE: 60 keV to 2 MeV

DISPLAY: 3½ digit backlit LCD with a total ranges listed in the table above. Also displays time remaining from 19:59 to 00:01 (in hh:mm format).

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

ALERTS & ALARMS: Adjustable over entire display range. There are distinct alerts and alarms for exposure and accumulated dose.

LOSS OF COUNT PROTECTION: 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."

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

CALIBRATION: Requires no tools or software when exposed to a traceable radiation field

CALIBRATION RANGE: Normally calibrated from 2 mR/hr to 999 R/hr, or 0.02 mSv/h to 9.99 Sv/h (units are model dependent)

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

POWER: 2 each lithium coin cell batteries

BATTERY LIFE: Typically 6000 hours. Provides 8 hours warning of low battery.

CONSTRUCTION: Injection-molded plastic housing with sub-surface printed membrane front panel, completely gasketed for water resistance

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

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.