

Model 203

Shielded Well Gamma Sample Counter Head



Ludlum Measurements, Inc.



Introduction

The Model 203, along with a pulse height analyzer system, is used for gamma ray assay and wipe test analysis. Sensitivity is improved with 3.8 cm (1.5 in.) of lead to reduce background and other external radiation. Pulse height analyzer systems with separate signal and HV connectors will require a signal splitter box (Model 297 or equivalent). The Model 203 is attached to a stand using a design that permits the detector to be rotated. This feature makes positioning the detector at target easier.

Specifications

Part Number: 47-1638

INDICATED USE: gamma assay

SUGGESTED INSTRUMENTS: Models 2000, 2200, 2221, and others

DETECTOR: 5.1 cm x 4.6 cm (2 x 1.8 in.) (Dia x L) thick integral NaI (Tl) well scintillator

EFFICIENCY (4π): 65%–¹²⁹I, ¹³⁷Cs–33%, 43% – ⁶⁰Co

SENSITIVITY: will detect 0.005 mCi gamma or 200 dpm removable contamination for ^{99m}Tc, ¹³¹I, ²⁰¹Tl, ¹¹¹In, ¹²⁵I, ¹³⁷Cs, ⁶⁰Co, and ⁶⁷Ga

BACKGROUND: 500 cpm or less

PHOTOMULTIPLIER TUBE: 5.1 cm (2 in.) diameter

OPERATING VOLTAGE: 500–1200 volts

WELL: 1.7 cm x 3.9 cm (0.66 x 1.6 in.) (Dia x L)

SHIELDING: 3.8 cm (1.5 in.) thick painted lead wall and removable cap

SIZE: 41.9 x 30.5 x 34.3 cm (16.4 x 12 x 13.5 in.) (H x W x L)

WEIGHT: 56.8 kg (125 lb)

SHIPPING WEIGHT: 68.2 kg (150 lb)

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

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