Model 239-1F with 2221 **Floor Contamination Monitor**



-udlum Measurements,

Features

- Adjustable Detector Height
- Dual Analog Meter & Digital LCD Readout
- Rich Array of Discrete Controls
- 425 cm² Gas Proportional Detector
- Rugged Roll-around Cart

Introduction

This system features a flow system, quick-connects, gas bottle mount, and height-adjustable detector for optimum floor-monitoring performance. A nuclear counting gas bottle and gas regulator is required for the operation of the floor monitor. This system is supplied with the Model 2221 General Purpose Ratemeter/Scaler, a full-featured instrument with both digital and analog displays and logically arranged discrete controls.

Specifications

Part Number: 48-2085

INDICATED USE: floor monitoring for alpha, beta-gamma radiation **DETECTOR:** gas proportional RECOMMENDED COUNTING GAS: P-10 (10% methane; 90% argon) CYLINDER SIZE: will hold a cylinder 15.2 cm x 48.3 cm (6 x 19 in.) (Dia x H) or smaller (Linde size "Q", Matheson size 3, Airgas size "R") WINDOW: 0.8 mg/cm² aluminized Mylar (window thicknesses of 0.4, 3.9, or 7.9 mg/cm² are available) **ACTIVE AREA:** 584 cm² **OPEN AREA:** 425 cm² **EFFICIENCY** (4π): 17%-²³⁹Pu; 25%-⁹⁰Sr/⁹⁰Y; gamma < 1% **GAS RECHARGE:** will operate on static charge for 2 hours DETECTOR HEIGHT: adjustable from 0.32–7.6 cm (0.125–3 in.) from surface **DETECTOR OPERATING VOLTAGE:** ALPHA: typically 1000–1200 volts BETA GAMMA: typically 1600–1800 volts THRESHOLD: typically 2-4 mV Model 2221 face, shown with FLOW METER: handle removed for clarity IN: adjustable from 0–100 cc/min **OUT:** flow indicator from 0–100 cc/min **GAS CONNECTORS:** double-end quick disconnect for 0.6 cm (0.25 in.) OD tubing GAS CONSUMPTION: typically 50 cc/min **CONSTRUCTION: DETECTOR:** anodized aluminum housing with stainless steel hex protective screen (79% open)

CART: 2.5 cm (1 in.) square tubular steel and aluminum with beige powder coat paint, 19.1 cm (7.5 in.) diameter rear wheels, and 10.2 cm (4 in.) diameter swivel casters

DETECTOR SIZE: 2 x 16 x 46.5 cm (0.8 x 6.3 x 18.3 in.) (H x W x L)

CART ASSEMBLY: 106.7 x 40.6 x 69.9 cm (42 x 16 x 27.5 in.) (H x W x L) (excluding detector) WEIGHT: 11.4 kg (25 lb), excluding gas bottle and counting instrument



(gas bottle not included)

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