# Model 239-1F with 2360 Floor Contamination Monitor



### **Features**

- Adjustable Detector Height
- Digital Ratemeter/Scaler/Logger
- Separate & Concurrent Count of Alpha & Beta
- 425 cm<sup>2</sup> 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 are required for the operation of the floor monitor. This system is supplied with the 4-decade, auto-ranging Model 2360 General Purpose Ratemeter/Scaler/Data Logger capable of separate or combined counting of alpha and beta channels as well as audio discrimination.



(gas bottle not included)

## **Specifications**

Part Number: 48-2922

**INDICATED USE:** floor monitoring for alpha and beta 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/cm<sup>2</sup> aluminized Mylar (window thicknesses of 0.4, 3.9, or 7.9 mg/cm<sup>2</sup> are available) ACTIVE AREA: 584 cm<sup>2</sup> **OPEN AREA:** 425 cm<sup>2</sup> **EFFICIENCY** (4π): 17%–<sup>239</sup>Pu; 25%–<sup>90</sup>Sr/<sup>90</sup>Y; 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 Model 2360 face, shown with BETA GAMMA: typically 1600–1800 volts handle removed for clarity **THRESHOLD:** typically 2–4 mV **FLOW METER:** IN: adjustable from 0–100 cc/min **OUT:** flow indicator from 0–100 cc/min MODEL 2360 DATA LOGGER GAS CONNECTORS: double-end quick disconnect for 0.6 cm (0.25 in.) OD tubing UDLUM MEASUREMENTS SWEETWATER, TEXAS CE 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

# -udlum Measurements, Ind

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