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Your Alternative
To The Obvious

Model 3277 Compact Alpha-Beta Hand and Foot Monitor

Introduction

The Model 3277 Hand & Foot Monitor is intended for checking low-level alpha and beta contamination on personnel. Two detectors are mounted to allow detection on the hand and foot. An optional third detector is also available for frisking. The hand and foot detectors include an infrared sensor that tells the system when to start a count. The large, colour touch-screen display provides user-friendly instruction and clearly shows the status of each detector. The system can communicate through a standard Ethernet connection for remote monitoring. It is powered by 115 Vac, but an optional backup battery box is also available to ensure constant power.



Features

- 7-inch Color LCD Display Shows All Readings Simultaneously in a Large Simple Layout
- Audible & Visual Alert Signals
- Easy to Operate Two-Step System
- Gasless – Uses Scintillators and PMT's
- Optional Rechargeable Backup Battery
- Automatic Start of Count
- Minimum Count Time

Rate	Alpha cpm	Beta cpm	⚙️
👤	000	456	✓
👣	001	346	🔊
🔪	000	192	🕒

Model 3277 Screenshot

Model 3277 Full System

Part Number: 48-4333-2

DISPLAY: 17.8 cm (7 in.) diagonal, TFT LCD SVGA

SYSTEM CONTROLLER: embedded arm processor running linux

COUNT TIME: automatically calculated

CONTROLS: touch screen, IR hand/foot switches

TEMPERATURE: 0 to 40 °C (32 to 104 °F)

HUMIDITY: 0-95% RH

POWER: 100-240 Vac wall transformer, main electronics 9-15 Vdc, 15 W

CONSTRUCTION: aluminium with powder-coat finish, stainless steel

SIZE (H x W x D): 138 x 30.5 x 49.7 cm (54.4 x 12 x 19.6 in.)

WEIGHT: 21.14 kg (46.6 lb)

Model 43-203 Hand Detector

DETECTOR TYPE: ZnS(Ag) scintillator adhered to 0.03 cm (0.01 in.) thick plastic scintillator

WINDOW: active: 301 cm² (46.8 in²)

EFFICIENCY (4π): 239Pu - 20% alpha, Tc99 - 15% beta

TYPICAL BACKGROUND: alpha: ≤ 3 cpm; beta: 700 cpm

CROSS-TALK: alpha to beta: ≤ 10%, beta-alpha: ≤ 1%

Model 43-204 Foot Detector

DETECTOR TYPE: ZnS(Ag) scintillator adhered to 0.03 cm (0.01 in.) thick plastic scintillator

WINDOW: active: 537.8 cm² (83.8 in²)

EFFICIENCY (4π): 239Pu - 15% alpha, Tc99 - 10% beta

TYPICAL BACKGROUND: alpha: ≤ 7 cpm; beta: 1000 cpm

CROSS-TALK: alpha to beta: ≤ 20%, beta to alpha: ≤ 1%

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Optional Model 43-93 Alpha-Beta Frisker

DETECTOR TYPE: ZnS(Ag) scintillator adhered to 0.03 cm (0.01 in.) thick plastic scintillator

WINDOW AREA:

Active: 100 cm² (15.5 in²), Open: 88 cm² (13.6 in²)

EFFICIENCY (4 π): 239Pu - 20%, 99Tc - 15%, 90Sr/90Y - 20%

TYPICAL BACKGROUND (10 μ R/hr field):

Alpha: \leq 3 cpm; Beta: \leq 300 cpm

CROSS-TALK: Alpha to Beta: < 10%, Beta to Alpha: < 1%

SIZE (H x W x D): 6.4 x 9.5 x 31 cm (2.5 x 3.8 x 12.3 in.)

WEIGHT: 0.5 kg (1.0 lb)

Optional Battery Box

POWER SUPPLY: 100-240 Vac wall transformer, 24 W

Input: 12-24 Vdc, 24 W

Output: 9-15 Vdc, 15 W

SIZE (H x W x D): 13.0 x 19.1 x 16.3 cm (5.1 x 7.5 x 6.4 in.)

WEIGHT: 3.3 kg (7.2 lb)



Shown with optional Frisker