

## Model 3277HFM Compact Alpha-Beta Hand & Foot Monitor



Model 3277HFM screenshot

Done	Alpha dpm	Beta dpm	
	27.3	73.4	
	0.00	16.7	

### 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 Battery Backup
- Automatic Start of Count
- Minimum Count Time

### Introduction

The Model 3277HFM 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 available for frisking. The hand and foot detectors include an infrared sensor that tells the system when to start a count. The large, color 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 a 100 - 240 Vac wall transformer. An optional battery backup is also available to ensure constant power.

### Model 3277HFM Base System

Part Number: 48-4333-1

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

#### DISPLAY RANGE:

- 0.00 cps to 999 kcps
- 0.00 cpm to 999 kcpm
- 0.00 Bq to 999 kBq
- 0.00 dpm to 999 kdpm

NOTE: Display ranges should be set up by qualified personnel according to detector specifications

**COUNT TIME:** automatic and manual count modes

**CONTROLS:** touch screen, IR hand/foot switches

**RESPONSE TIME:** User-selectable from 1 to 60 seconds, or Auto-Response Rate FAST or SLOW

**ALARMS:** Audible and visual alarms

**LOSS OF COUNT PROTECTION:** After a user-settable time interval of no pulses from detector (default 60 seconds), the unit will display an alarm

**AUDIO:** Greater than 75 dB at 0.6 m (2 ft.), approximately 4.5 kHz

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

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

**CONSTRUCTION:** aluminum 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 cm<sup>2</sup> (46.7 in<sup>2</sup>), open: 238 cm<sup>2</sup> (36.9 in<sup>2</sup>)

**EFFICIENCY (4π):** <sup>239</sup>Pu - 20% alpha, <sup>99</sup>Tc - 15% beta

**TYPICAL BACKGROUND:** alpha: ≤ 5 cpm; beta: 700 cpm

**CROSS-TALK:** alpha to beta: ≤ 15%, beta to 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: 540 cm<sup>2</sup> (83.7 in<sup>2</sup>), open: 378 cm<sup>2</sup> (58.6 in<sup>2</sup>)

**EFFICIENCY (4π):** <sup>239</sup>Pu - 12% alpha, <sup>99</sup>Tc - 10% beta

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

**CROSS-TALK:** alpha to beta: ≤ 18%, beta to alpha: ≤ 1%

### Options

**Model 43-93 Alpha-Beta Frisker** (PN: 4519-277)

Includes Model 43-93 detector and cradle with switch.

**Model 43-147 Alpha-Beta Frisker** (PN: 4519-489)

Includes Model 43-147 detector and cradle with switch.

**Battery Backup** (PN: 4224-043)

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

(Input: 12 - 15 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)