

Model 4906A Hand & Foot Monitor

Radiation Detection for a Safer World



Ludlum Measurements, Inc.

Features

- Alpha Air Proportional Probes
- Large LCD User Interface
- Automatic Routines for Detector Setup & Alarm Calculations
- Voice Prompts
- Built-in Ethernet Interface
- Single-Hand Operational Mode
- Front Access to All Components for Repair/Calibration

Introduction

The Model 4906A is an industrial-duty, low-cost, alpha-only contamination monitoring system for the hands and shoes of personnel. System status and areas of possible contamination are presented in a large color LCD making the process simple and user-friendly.

Counting is initiated by optical switches that activate six air-proportional-type detectors. Alarms annunciate locally and can be augmented with optional relays that will signal remote devices or a high-visibility alert light mounted on top of the unit. The built-in Ethernet interface supports connection to a network for gathering all count cycles along with permitting remote monitoring of the status of the instrument.

All maintenance can be performed from the front of the instrument. Hinged top covers make accessing detectors for repair or replacement convenient. Rear-mounted wheels allow the instrument to be transported from one location to the next with relative ease.

Specifications

DETECTORS: six alpha air- proportional detectors: two for feet, and four to cover both sides of hands

DETECTOR EFFICIENCY (4π):

Hand Detectors: ^{239}Pu –12%

Foot Detectors: ^{239}Pu –10%

DISPLAY: 30.7 cm (12.1 in.) diagonal, TFT LCD SVGA

ELECTRONICS: fanless motherboard running Windows™ 7 Pro

COUNT TIME: adjustable from 1–99 seconds

CONTROLS: LCD touchscreen facilitates all control functions with the exception of 1) power on/off button, 2) one hand operation button, 3) alarm acknowledgment button

CONSTRUCTION: welded aluminum with powder coat finish, stainless steel base, and two offset wheels for portability

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

HUMIDITY: 0–95% relative humidity

POWER SUPPLY:

Input: 90 – 264 VAC at 47 – 63 Hz (requirement for wall outlet power)

Output: 12 VDC, 7 A Max, 84 W (M4906 input power coming from Power Supply)

SIZE: 121 x 79.8 x 90.2 cm (47.6 x 31.4 x 35.5 in.) (H x W x D), step-up 3.8 cm (1.5 in.) high

WEIGHT: 72.6 kg (160 lb)

Also Available:

Model 4906AB Alpha/Beta Hand & Foot Monitor [Part Number 48-3688]

Model 4906P Alpha/Beta/Gamma Hand & Foot Monitor [Part Number 48-3919]

Light Tower with Red, Yellow, and Green Status Signal Lights [Part Number 4420-335]

Pancake Frisker: Model 44-9 with cable, infrared sensor, holder, & components for determining point of contamination in the event of an alarm [Part Number 4420-420]



Part Number: 48-3687
[shown with optional Light Tower]



Frisker Option PN 4420-420