

# Model 4906P

## Alpha/Beta/Gamma Hand & Foot Monitor



Ludlum Measurements, Inc.

### Features

- GM Pancake Detectors
- Large LCD User Interface
- Automatic Routines for Detector Setup & Alarm Calculations
- Customizable Voice Prompts
- Single-Hand Operational Mode
- Front Access to All Components for Repair/Calibration

### Introduction

The Model 4906P is a low cost, industrial duty, alpha/beta/gamma contamination monitoring system that uses six clusters of pancake detectors for checking personnel. A large color LCD presents users with the system status and points out any potential contamination in an easy-to-use manner. Alarms are annunciated locally and can be augmented with optional relays for signaling remote devices or a light stack mounted on top.

All maintenance can be performed from the front of the instrument. Detector access for quick replacement or repair is facilitated by hinged top covers. The unit is equipped with rear-mounted wheels to facilitate transporting the instrument from one location to the next.



Part Number: 48-3919  
[shown with optional Status Light Tower]

### Specifications

**DETECTORS:** six clusters of pancake detectors: two 6-pancake clusters for feet, and four 5-pancake clusters to cover both sides of hands

**EFFICIENCY (4π):**

Hand: 3% for <sup>14</sup>C; 12% for <sup>99</sup>Tc; 12% for <sup>137</sup>Cs; 12% for <sup>237</sup>Pu; 23% for <sup>90</sup>Sr<sup>90</sup>Y; 0.15% for <sup>57</sup>Co

Foot 3% for <sup>14</sup>C; 10% for <sup>99</sup>Tc; 10% for <sup>137</sup>Cs; 12% for <sup>237</sup>Pu; 23% for <sup>90</sup>Sr<sup>90</sup>Y; 0.15% for <sup>57</sup>Co

**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% RH

**POWER:** 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 4906A Alpha Hand & Foot Monitor [Part No. 48-3687]

Model 4906AB Alpha/Beta Hand & Foot Monitor [Part No. 48-3688]

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]



Frisker Option PN 4420-420

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Note: specifications subject to change without notification. We are not responsible for errors or omissions.

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