

# Model 4906AB Hand & Foot Monitor

*Radiation Detection for a Safer World*



Ludlum Measurements, Inc.

## Features

- Alpha/Beta Gas Flow Proportional Probes
- Large LCD User Interface
- Automatic Routines for Detector Setup & Alarm Calculations
- Voice Prompts
- Built-in Ethernet Interface
- Single-Hand Operational Mode
- Optional GM Pancake or Gas Flow Proportional Hand Frisker

## Introduction

The Model 4906AB is a low cost, industrial duty, alpha and beta contamination monitoring unit employing six gas flow proportional type detectors. It presents personnel with a large color LCD screen that displays system status and indicates any potential contamination in an easy-to-use manner. The built-in Ethernet interface supports a network connection to gather count cycles data and remotely monitor status. Rear-mounted wheels facilitate moving the instrument from one location to the next.

## Specifications

DETECTORS: six gas flow proportional: two for feet, and four to cover both sides of hands

COUNTING GAS: P-10 or equivalent

DETECTOR EFFICIENCY (4 $\pi$ ):

Hand Detectors:  $^{90}\text{S}/^{90}\text{Y}$ : 23%;  $^{230}\text{Th}$ –15% (*gamma sensitivity: 125 cps/ $\mu\text{Sv/h}$* )

Foot Detectors:  $^{90}\text{S}/^{90}\text{Y}$ –11%;  $^{230}\text{Th}$ –5% (*gamma sensitivity: 250 cps/ $\mu\text{Sv/h}$* )

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

ELECTRONICS: fanless motherboard running Embedded Windows™ XP

COUNT TIME: adjustable from 1–1000 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 rear-mounted offset wheels for portability

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

HUMIDITY: 0–95% RH

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: 72.5 kg (160 lb)

## Optional Detector Kits:

Model 44-9 GM Pancake Detector Frisker Kit: sensitive to alpha, beta, & gamma radiation PN 4420-420

Model 43-143 Frisker Kit: rechargeable, gas proportional frisker PN 4420-445



Part Number: 48-3688  
*[shown with optional  
light stack]*