

## Model 3227/1 Alpha-Beta Frisker



Model 3227/1 configured with desktop mount

### Features

- 7-inch Color Touch-Screen Shows all Readings Simultaneously in a Large, Simple Layout
- Simple Setup and Use
- Can Be Used with Various Scintillation or Proportional Detectors
- Either Imperial or SI Units
- Rechargeable Backup Battery
- Automatic Background Subtraction During Measurements

### Introduction

The Model 3227/1 is a wall-mount or desktop instrument that can be used for frisking personnel or objects for alpha and beta contamination. A large, color touch-screen displays alpha and beta readings simultaneously, and dual tone click-audio enables the user to easily distinguish between alpha and beta contamination. Power is supplied by either an internal, rechargeable battery or a 100 - 240 Vdc wall transformer. Battery life is approximately 8 hours under normal usage.

The Model 3227/1 is supplied with either a wall mount or a desktop mount. Mount type must be specified at time of order. The instrument can be used with either scintillation or proportional alpha-beta detectors. A list of compatible Ludlum detectors is provided on the right.

### Specifications

Part Number: 48-4357

**COMPATIBLE DETECTORS:** Scintillation or proportional alpha-beta detectors

**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

**CONTROLS:** Touch-screen

**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

**HIGH VOLTAGE:** 400 to 2200 Vdc

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

**POWER:** 12 V, 6 A-hr internal battery or input from wall-mount transformer (input 100-250 Vac, 50-60 Hz, output to instrument 15 Vdc, supplies trickle charge to battery)

**BATTERY LIFE:** Up to 8 hours

**CONSTRUCTION:** Aluminum housing with beige powder-coat finish

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

**SIZE (H x W x L):** 9.4 x 18.5 x 23.6 cm (3.7 x 7.3 x 9.3 in.)

**WEIGHT:** 4.7 kg (10.4 lb)

### Configuration Options

Select **Desktop Mount:** PN 4519-435

or **Wall Mount:** PN 4519-439

Select **Model 43-93 Cradle:** PN 4519-441

or **Model 43-147 Cradle:** PN 4519-442

### Compatible Detectors

**Model 43-93:** 100 cm<sup>2</sup> alpha/beta scintillator (PN: 47-2556)

**Model 43-147:** 200 cm<sup>2</sup> alpha/beta scintillator (PN: 47-4092)

### Software

**Lumic Calibration Software Kit (includes cable):** PN 4498-1018