

Model 215 Alpha Frisker Station

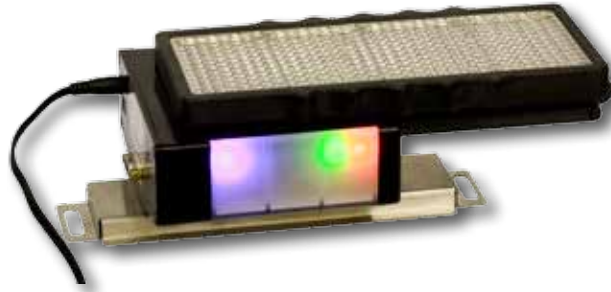
Radiation Detection for a Safer World



Ludlum Measurements, Inc.

Features

- Dual Purpose Alpha Frisker & Hand Monitor Station
- Detector Operates Independent of Its Stand
- Simple to Use
- No Batteries, Cables, or Gas Required
- User-Adjustable Alarm Audio



Part Number: 48-3695

Introduction

This innovative, dual-purpose, alpha contamination detection instrument can be used as both a stationary hand frisker, or be operated as any other mobile alpha frisker once it is removed from its charging stand. The convenient, integrated detector design requires no batteries, P-10 counting gas, or cables, giving the user complete freedom in performing frisking duties. The large area, air proportional detector has built-in electronics, display, and capacitors that allow it to be operated up to 30 minutes before needing to be recharged. Fully discharged, the detector is ready for stationary operation within 5 minutes of being placed into the charger stand, and ready for mobile frisking within 20 minutes. The charging stand interfaces to a PC to facilitate setting parameters and running high voltage plateaus via an optional application program.



Model 215 shown with the included calibration/charging Stand (Model 215-20)

Specifications

APPLICATION: alpha frisking, hand monitor with alarm
DETECTOR: alpha air proportional probe with integrated electronics
WINDOW AREA: active: 139 cm² (21.6 in²); open: 110 cm² (17.1 in²)
WINDOW: 0.4 mg/cm² aluminized Mylar with aluminum screen (79% open)
EFFICIENCY (4π): 10%^{-239Pu}
DETECTOR USE TIME: when disconnected from charger, 30 minutes maximum
DETECTOR RECHARGE TIME: 20 minutes
DETECTOR DISPLAY:
Red LED - blinking (alpha pulse); continuous (alarm)
Amber LED - trouble
Green LED - OK
AUDIO: 85 dB at 30.5 cm (12 in.); programmable to other sound levels
OPERATING VOLTAGE: altitude sensitive, 1950 Vdc (sea level) to 1775 Vdc (2.1 km [7000 ft])
COUNTER THRESHOLD SETTING: -4 mV
POWER:
Detector: internal capacitors provide power for 30 minutes (in non-alarming condition) when operating independent of the stand
Stand: +15 Vdc (+12 Vdc minimum to +20 Vdc maximum) at 100 mA maximum
CONSTRUCTION: conductive plastic body with internal sealed electronics
TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F)
SIZE:
Detector: 24.1 x 11.4 x 3.8 cm (9.5 x 4.5 x 1.5 in.) (H x W x D)
Charging/Calibration Stand: 13.5 x 14.7 x 5.8 cm (5.3 x 5.8 x 2.3 in.) (H x W x D)
WEIGHT:
Detector: 0.54 kg (1.2 lb)
Stand: 0.50 kg (1.1 lb)