

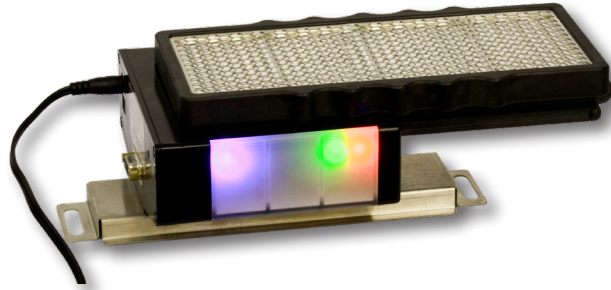
Model 215 Alpha Frisker Station



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



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 for at least 10 minutes, typically 15 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 30 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

Part Number: 48-3695

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, at least 10 minutes, typically 15 minutes in a non-alarming condition

DETECTOR RECHARGE TIME: 30 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)

Ludlum Measurements, Inc. P.O. Box 810, Sweetwater, Texas 79556

Web: <http://www.ludlums.com> Tel: 800-622-0828 / 325-235-5494 / Fax: 325-235-4672 / Email: sales@ludlums.com

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

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