



The Ludlum Alpha Spot Check

Model 215 Application Article

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Great Adaptation of the Ludlum Model 215 Alpha Frisker

Ludlum's unique Model 215 Alpha Frisker was originally designed as a dual purpose Glovebox Hand Monitor and Frisker. A bright customer conceived the idea of the Alpha Spot Check station as yet another innovative and cost-effective way to utilize this equipment for checking alpha contamination.

The Alpha Spot Check station concept incorporates two of the Model 215's onto a mobile lectern to facilitate a quick and convenient response to the typical leak or spill. The shelving can accommodate gloves, shoe covers, smears or other materials necessary to assist in the effort. Due to the unique design of the Model 215 instrument, operation is exceptionally simple and intuitive. The convenient removable detectors also facilitate checking any other likely areas of contamination.

Not one to let a good idea die, an off-the-shelf lectern and extension cord was purchased and quickly assembled using simple tools.

The Alpha Spot Check station mounts the two Ludlum Model 215 detectors with their respective charging stands on the sloping surface of a lectern. The two air proportional, 110 cm², alpha sensitive detectors face upwards ideally positioning them for users to check the front and back sides of their hands. These detectors typically produce a 10% efficiency for Pu239.

Detectors can easily be detached from their stands by users to check soles of shoe covers, sleeves, or other places and items which might be contaminated. The detectors are fully functional independent of the power charging stands so they can be removed for up to 40 minutes at a time. The detectors utilize large capacitors for power, so there are never any batteries to contend with. Each detector outputs an audio signal per alpha event and is equipped with green, yellow and red LED's to notify the user of the ready, trouble or alarm status.



Features:

- Less than half the price of hand and foot monitors
- Air proportional detectors, uses no gas or batteries
- Small footprint
- Very mobile with locking casters
- Convenient space for placing items users may be carrying
- Shelves for storing clean and used shoe covers or for other instruments
- Simple power cord connection, no messy cables
- Detectors are easily slipped in and out of the charging stands by users in just seconds
- Detectors can be replaced in seconds, no tools required

