

Radcount-2S Display Unit



Radcount-2S display unit can be used with variety of VF's smart detectors. When connected with SFP smart frisking probe it can serve as a portable handheld contamination monitor of alpha, beta and gamma emitting radionuclides.

Purpose

Radcount-2S is a versatile dual channel display unit, which can be used with variety of VF's smart detectors.

When connected with SFP series frisking probe it can serve as a portable hand-held contamination monitor of alpha, beta and gamma emitting radionuclides. The surfaces of various objects can be measured, such as: walls, floors, tables, pallets, drums, hands, feet and clothing.

When connected to SND-01 smart neutron detector it can serve as a portable hand-held neutron meter.

Description

The complete monitor consists of two parts: Radcount-2S display unit and one of selected probe with interconnecting cable.

The instrument can operate in a single or dual channel mode and an integration mode is also available.

Radcount-2S is equipped with a clear high resolution LCD backlit display which shows the necessary measurement information as a digital readout and/or in bar-graph form. Results can be presented in any desired measurement unit. Depending on the probe connected, the single channel (with bargraph) or dual channel mode can be selected. A battery status indicator is also displayed.

The display is easily readable under standard light conditions without back illumination; however, the back illumination of the display can be activated if required.

Incoming pulses can also be made audible. The alpha and beta (gamma) sounds are clearly distinguishable.

Main Advantages

- User-friendly, simple usage
- Compact, lightweight, shock-resistant
- Gasless detector, fast replacement of foil
- Different probes available; single or dual channel
- High sensitivity, uniform response
- Normal or integration mode
- Various measurement units available
- Two settable alarms
- Long battery lifetime
- Standard or rechargeable batteries operated, integrated battery charger
- Easy decontamination

Common Specification

| | |
|--------------------------|--|
| Dimensions (H x W x D) | 158 x 95 x 34 mm (6.2 x 3.7 x 1.3 in) |
| Display area | 70.0 x 43.5 mm (2.75 x 1.7 in) |
| Weight | 0.6 kg (1.3 lb) |
| Ambient temperature | -10 ~ 40 °C (14 ~ 104°F) |
| Relative humidity | 90% |
| High-voltage source | 200 ~ 1500 V |
| Average battery lifetime | 50 hr. |

Description

Six push-buttons enable to switch the device On/Off, to activate the back illumination, to switch the sound On/Off, to switch between "normal" and "integrating" mode, to change the way the data is displayed in one or two channels and to measure and save the background.

The display unit can communicate with a PC via a "service" USB port to display and change the preset parameters.

Connectivity Description

SFP-100 series Smart Frisking Probes

The family of Smart Frisking Probes SFP-100 enables measurement of alpha, beta and gamma radiation. The probes are designed as compact and lightweight devices. The SFP-100 series probes with 100 cm² area are provided as standard. Other models (areas) are available on request.

Type of detector designates the type of ionizing radiation detected. It is possible to connect various single or dual channel alpha/beta/gamma smart detectors.

The plastic scintillator (and/or ZnS(Ag) for alpha models), reflector, photomultiplier and electronics are located within the ruggedized metal probe casing. The optimized reflector geometry and surface ensures very good homogeneity and efficiency.



SFP-100 series Smart Frisking Probes

SND-01 Smart Neutron Detector

The SND-01 Smart Neutron Detector, when connected to Radcount-2S, can serve as a monitor of neutron dose rate equivalent H*(10) in ranges from 0.1 μSv/h up to 1 Sv/h. Its typical use is in spent fuel storages, research institutes with accelerators, neutron calibration labs, radioactive waste repositories, PET centers with cyclotron, etc.

It consist of cylindrical proportional ³He detector, 10" high density polymer moderation sphere, PCB logics (data processing, EHT support, communication).

Models and Accessories

| Type | Description |
|---|--|
| K1130 | Radcount-2S Display Unit |
| Optional Accessories | |
| <ul style="list-style-type: none"> ▪ Wrist lanyard for Radcount-2 ▪ Neck lanyard for Radcount-2 | |
| Type | Connectible Probe |
| K0935 | SFP-100A Frisking Probe – single channel; alpha |
| K0919 | SFP-100B Frisking Probe – single channel; alpha + beta |
| K0936 | SFP-100C Frisking Probe – dual channel; alpha / beta |
| K0937 | SFP-100D Frisking Probe – single channel; alpha + beta + gamma |
| K0938 | SFP-100E Frisking Probe – dual channel; alpha + beta/gamma |
| K1419 | SND-01 Smart Neutron Detector |



Portable neutron dose equivalent monitor

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