

Radcount-2 Ratemeter



Radcount-2 ratemeter can be used with variety of analog probes such as FP series frisking probe or SDG dose rate probes as a portable hand-held instrument.

Radcount-2 can also be used with variety of dumb probes from other manufacturers.

Purpose

Radcount-2 is a versatile dual channel ratemeter for the measurement of medium rates of pulse counts from ionizing radiation detectors. It can be used either for surface contamination measurement or for dose rate measurement according to the type of connected probe.

When frisking probe is connected, the surfaces of various objects can be measured, such as: walls, floors, tables, pallets, drums, hands, feet and clothing.

When dose rate probe is connected, Radcount-2 can serve as portable dose rate meter, as a teledetector with suitable telescopic rod or for various process measurements.

Description

The monitor consists of two parts: Radcount-2 ratemeter and one of selected probe with an interconnecting cable.

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

Radcount-2 ratemeter 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 mode (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.

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.

Main Advantages

- User-friendly, simple usage
- Compact, lightweight, shock-resistant
- Different probes available
- Normal and integration mode
- Various measurement units available
- Two settable alarms
- Long battery lifetime, 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.

Connectivity Description

SDG-02e dose rate probe

Dose rate probe SDG-02e is intended for dose rate equivalent measurement in the environment from background value up to tens of mSv per hour. Due its durable and easy construction, it can be used in harsh environment with very low or high temperatures (-25 ~ 50 °C / - 13 ~ 122 °F).



SDG-02e dose rate probe

FP-100 series frisking probes

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



FP Frisking probe

Type of detector designates the type of ionizing radiation detected. It is possible to connect alpha (FP-100A), alpha + beta (FP-100B), dual channel alpha/beta (FP-100C), alpha + beta + gamma (FP-100D) and dual channel alpha/beta + gamma (FP-100E) probe. 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.

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

Probe Specification

SDG-02e probe

Dimensions (L x Ø)	150 x 30 mm (5.9 x 1.18 in)
Weight	0.3 kg (0.7 lb)
Measurement range	0.1 µSv/h ~ 0.05 Sv/h
Energy response	50 keV ~ 1.3 MeV

FP-100 frisking probe series

Dimensions (W x D x H)	470 x 300 x 130 mm (18.5 x 11.8. x 5.1 in)
Active detector area	100 cm ² (15.5 in ²)
Weight	0.7 kg (1.5 lb)

Typical efficiency*

⁹⁰ Sr+ ⁹⁰ Y	up to 49%
²⁰⁴ Tl	up to 45%
¹³⁷ Cs	up to 47%
²⁴¹ Am	up to 42%
⁶⁰ Co	up to 43%

* efficiency depends on type of connected probe

Models and Accessories

Type	Description
K1153	Radcount-2 Ratemeter
N/A	Wrist lanyard for Radcount-2
N/A	Neck lanyard for Radcount-2
Type	Connectible Probe
K1296	SDG-02e dose rate probe
K1250	FP-100A Frisking Probe – single channel; alpha
K1251	FP-100B Frisking Probe – single channel; alpha + beta
K1252	FP-100C Frisking Probe – dual channel; alpha / beta
K1253	FP-100D Frisking Probe – single channel; alpha + beta + gamma
K1254	FP-100E Frisking Probe – dual channel; alpha + beta/gamma



www.vf.eu

Contact address

Czech Republic

VF, a.s., Svitavská 588
CZ 679 21 Černá Hora
tel. +420 516 428 611
fax +420 516 428 610
info@vf.eu

Slovak Republic

VF, s.r.o., M. R. Štefánika 9
SK 010 02 Žilina
tel. +421 415 072 411
fax +421 415 072 410
info@vf.eu

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