

RM600 Metal Shell Radiation Scanner



*food pollution Inspection
liquid pollution Inspection*

*Solid metal shell
Detects β , γ , X rays
High-sensitivity sensor
Water resistant 10 meters*

Radiation Scanner

The shell of RM600 radiation scanner is completely made of metal. It is outstandingly solid and proof level is up to IP67. This model can be used to conduct routine detection of radiation and radiation detection even up to ten meters under the water. The RM600 metal shell radiation scanner is manufactured to UE standards with a 2 inch large flat GM tube, which is highly sensitive to rapidly detect the strength of β , γ and X rays.

RM600 radiation scanner utilizes a high resolution LCD screen, and can transfer units displayed between $\mu\text{Sv/h}$ 、 mR/h 、 CPS 、 CPM . It encompasses an ergonomic design and is protected from electromagnetic interference using anti-saturation circuitry. Calibration of this unit can be done remotely by connecting the instrument to an extension pole with screw on bottom so there is no need for direct contact at the time of calibration. The R500 has full CE certification and is manufactured to ISO9001 quality standards.

Application

RM600 metal shell radiation scanner could be widely used in restaurants, hotels, the family home, public places, laboratory's, power plants, quarries, emergency rescue stations, metal treatment plants, underground and underwater oil field and oil pipeline equipment, environmental protection, police stations and other departments. It can also be used to:

Inspect food pollution

Inspect environmental pollution

Inspect underground water, radium pollution

Inspect radioactivity of porcelain, tableware and glass etc.

Inspect local radiation leakage and nuclear radiation pollution

Inspect radioactivity of materials architecture, such as stone etc.

Inspect radioactivity of underground drilling pipes and equipment

Inspect harmful radiation in personal precious property and jewelry

Inspect landfill and garbage dumps in danger of nuclear radiation contamination

Inspect X-ray intensity of Medical and industrial X-ray instrumentation

Features



Full metal shell, extremely solid

—Excellent solution for nuclear radiation measurement



Protection level IP67, could be directly put into liquid for detection



Option: Telescopic link

model:	MP-4
Section number	4
Max pipe diameter	Φ25.8mm
Max height	153cm
Reduced height	49cm
weight(kg)	0.32kg

Use: distance-detecting nuclear radiation to avoid human radiation exposure.

Specifications

Types of measured Ray	β 、 γ and X ray
Range	Radiation dose rate:0.01 μ Sv/h-1000 μ Sv/h,0.001mR/hr-100mR/hr Impulse dose rate:0-300,000cpm,0-5,000cps Radiation dose accumulation:0.001 μ Sv-999Sv
Sensitivity	3500CPM/mR/hr (aboutCs-137)
Sensor	Large GM tube, effective diameter 45mm MICA window density1.5-2.0mg/cm ²
Output port	USB Port (with special USB extend cable, which can extend to 100M)
Average time	Default:32 seconds, adjustable from 2s to 120s automatically or manually
Display	Large LCD, with bar graph display
Efficiency	Sr-90(546KeV, 2.3MeV β max)about75%;C-14(156KeV β max) about 11%;Bi-210(1.2 MeV β max)about64%;Am-241(5.5MeV α)about 36%
Anti saturation	Exceed the maximum reading of up to 100 times, reading remains at full scale.
Alarm	Alarm value setting fully adjustable, default: 5 μ Sv/hr
Precision	\pm 15%
Storage	Storage of up to 2000 data points manually or automatically
Software	Transmit data in real-time to computer for displaying, analyzing and recording.
Material of shell	metal
Waterproof	10 meters
Operating temperature	-10 $^{\circ}$ C to 50 $^{\circ}$ C
Weight	450g
Dimension	L 300mm, W90mm, H 40mm
Power	3 AA battery, Continuous operation for up to 30 days
Quality certifications	European CE,US FCC15
Warranty	1 year

Software analysis

