



MULTIRAD-LLR

Radiation Meter



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

OVERVIEW

The MULTIRAD system is built upon the MULTIRAD radiation meter equipped with a full array of accessories.

Integrating all the functions necessary for nuclear detection, and the required characteristics for various missions. This radiation monitoring system meets Low Level requirements.

It is currently used by Military and Civil Defense personnel.

RELATED PRODUCTS

- Beta gamma probe
- Alpha 125 probe
- TGS probe
- Alpha pencil probe
- X probe
- GMP-11 probe
- GMP-25 probe

KEY FEATURES

Ratemeter covering Tactical high range and Low Level Radiations (LLR) range

- Autonomous
- Measurement of residual gamma dose rate
- Stand-alone internal detectors and complete range of external probes
- Compact and lightweight
- MULTIRAD has been designed to operate in harsh environmental conditions

PHYSICAL CHARACTERISTICS

- X, γ detection: 50 keV to >3 MeV
- 6 digit back-lit display with floating point, unit, trend indicators, bargraph, LED and alarm indication
- Bar graph for natural background level range
- Fast reacting algorithm in changing conditions
- Calculation and display of the "mission" dose: 0.1 μ Sv to 10 Sv or 0.00001 cGy to 10 Gy

FUNCTIONAL CHARACTERISTICS

- **Dose rate measurement:**
 - Settable resolution: 0.01, 0.1, 1 μ Sv/h (or cGy/h equivalent)
 - maximal range: 10 Sv/h or 10 cGy/h
- Visual and audible alarm (concealable)
- 3 preset alarm thresholds and trend alarm
- Self-test: checks power supply and the 2 measurement ranges
- Display backlight
- Periodic or on request mean dose rate memorization (> 400 steps) and events memorization
- GPS localization support
- GPS based exercise mode
- RADIAMASS software for remote display, configuration, history display,...
- **Multi-function outlet for external probes:**
 - Remote transmission
 - External power supply

ELECTRICAL CHARACTERISTICS

- Power supply: 4 AA 1.5 V batteries
- Battery lifetime: > 48 hours

MECHANICAL CHARACTERISTICS

- Dimensions: 171 x 91 x 45 mm (6.7 x 3.5 x 1.7 in)
- Weight: approximatively 600 g (1.32 lb)
- IP65 Protection

OPTIONS

- Strap for carrying on wrist
- Clip for carrying on belt
- User's guide on back of instrument
- NATO green or blue color available

ACCESSORIES

- A range of accessories adds functionalities to the MULTIRAD radiation meter :
- External probes which are easily connected to the multi-function outlet, for α , β and γ detection
- Scanning rod
- Carrying and storing case
- Operational test bench
- Particulate air sampling device
- Simulation systems can be proposed for training users on the field
- RADIAMASS software for remote display, configuration, history display,...

The MULTIRAD and its accessories have been developed for operational use under severe environmental conditions:

- **During transport and storage:**
 - Drops, vibrations, jolts, pressure, temperature, salt air fog
- **While in use:**
 - Drops, watertight, wide temperature range, electromagnetic susceptibility and interference, NEMP resistance decontamination



GMP-11 alpha beta gamma probe for MULTIRAD



GMP-25 alpha beta gamma probe for MULTIRAD

Carrying case with external: beta/gamma probe, alpha 125 probe, X probe, TGS probe and pencil probe.

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