MULTIRAD-LLR
Radiation Meter

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.

KEY FEATURES

- 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

RELATED PRODUCTS

- Beta gamma probe
- Alpha 125 probe
- TGS probe
- Alpha pencil probe
- X probe
- GMP-11 probe
- GMP-25 probe
**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 μSv to 10 Sv or 0.00001 cGy to 10 Gy

**FUNCTIONAL CHARACTERISTICS**

- Dose rate measurement:
  - Settable resolution: 0.01, 0.1, 1 μSv/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

**MECANICAL CHARACTERISTICS**

- Dimensions: 171 x 91 x 45 mm (6.7 x 3.5 x 1.7 in)
- Weight: approximately 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

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

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