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Your Alternative
To The Obvious

AMP-100 Area Monitor

The AMP-100 Area Monitor Probe is a GM tube based rate meter. It is a state-of-the-art microprocessor-based instrument, designed for highly stable and accurate measurements of dose rate and integrated dose rate gamma radiation. The AMP-100 covers a measuring range of 10 $\mu\text{Sv/hr}$ to 10 Sv/hr .

It is a lightweight and compact instrument with a large, four 7-segment LCD. The AMP-100 sophisticated software offers special features and optimal performance. The wide dynamic range from 0.001 R/h to 1000 R/h, is obtained by automatic dead time correction, according to the preset calibration. A special averaging function softens the readout and maintains fast response time, while keeping the standard deviation at a minimum



Features

- Waterproof to at least 20 meters depth.
- Rugged, lightweight construction (~2Kg)
- Digilog, continuous ranging, combined digital and analogue, LCD display
- Readout of dose rate and accumulated dose
- Units of either mR or μSv
- Programmable alarm thresholds
- Compatible with RMV software for pc data downloads
- Smart software provides fast, yet stable response
- Dead time correction
- Alarms for detector overflow, low battery and detector failure
- Automatic self diagnostic routine

Technical Description

The Area Monitor Probe (AMP-100) is a high-range GM tube-based detector designed to be continuously used in areas where high exposure levels exist.

The instrument consists of three parts: the Meter box (which includes the display unit, operating pushbuttons and detector's electronics); The probe head, which contains the GM tube; and the connecting cable, which is fitted with quick-connect-type connectors at each end. The AMP-100's connections and probe head feature watertight sealing to allow for use in underwater applications.

Specifications

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|-------------------------------|---|
| Display : | LCD Display showing: Detector failure, Low battery, Overflow, Threshold |
| Measuring Range: | 10 μ Sv/hr to 10Sv/hr |
| Sensitivity (137Cs): | 0.3 cps/mR/h(137Cs) |
| Accuracy: | \pm 10% of reading within measuring range |
| Units: | mR/h and mR or m Sv/h and m Sv |
| Controls: | Four key keypad with positive feedback. Key combinations for programming operating parameters. |
| Power Source: | One 9-volt cell battery or external 9V power supply, 50 hours minimum continuous operation, using an alkaline battery (speaker off) Automatic battery check under full load (without backlighting) |
| Temperature Range: | Operation: -10° C to +50° C Storage: -20° C to +60° C |
| Humidity Range (case): | 40% to 95% RH (non condensing) |
| Casing material: | Meter: Aluminium Detector: Aluminium, waterproof |
| Dimensions: | Meter: 12 cm x 7.2 cm x 3.4 cm Detector: Diameter: 2.45 cm x Length: 14.3 cm without cable |
| Weight: | Meter: 340 g including battery Detector: 131 g without cable |
| Std. Cable Length: | 25 ft. |
| Max. Cable Length: | 350 ft. |

Accuracy, range and sensitivity details are related to ¹³⁷Cs