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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  $\text{Sv/hr}$ .

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  $\mu\text{Sv}$

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

<b>Display :</b>	LCD Display showing: Detector failure, Low battery, Overflow, Threshold
<b>Measuring Range:</b>	10 $\mu$ Sv/hr to 10Sv/hr
<b>Sensitivity (137Cs):</b>	0.3 cps/mR/h(137Cs)
<b>Accuracy:</b>	$\pm$ 10% of reading within measuring range
<b>Units:</b>	mR/h and mR or m Sv/h and m Sv
<b>Controls:</b>	Four key keypad with positive feedback. Key combinations for programming operating parameters.
<b>Power Source:</b>	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)
<b>Temperature Range:</b>	Operation: -10° C to +50° C Storage: -20° C to +60° C
<b>Humidity Range (case):</b>	40% to 95% RH (non condensing)
<b>Casing material:</b>	Meter: Aluminium Detector: Aluminium, waterproof
<b>Dimensions:</b>	Meter: 12 cm x 7.2 cm x 3.4 cm Detector: Diameter: 2.45 cm x Length: 14.3 cm without cable
<b>Weight:</b>	Meter: 340 g including battery Detector: 131 g without cable
<b>Std. Cable Length:</b>	25 ft.
<b>Max. Cable Length:</b>	350 ft.

Accuracy, range and sensitivity details are related to <sup>137</sup>Cs