

Low-range waterproof GM probe instrument**AMP-50 Area Monitoring Probe**

10 nSv/h to 40 mSv/h (0.001 mR/h to 4000 mR/h).

Radiation Detection Division**Health Physics**

The AMP-50 is a GM tube-based low range Area Monitor. It has been designed specifically to be used in low dose rate fields using a very sensitive GM tube.

The AMP-50's detector features a linear response from 0.1 μ Sv/h to 40 mSv/h (10 μ R/h to 4 R/h).

The AMP-50 may be used in one of 2 ways: by locally reading the smoothed digital display via the hand-held meter, or by connecting the meter to a Remote Monitoring System like WebiSmarts or connected directly to RS-232 computer input (using the RS-232 cable)

**Features**

- Wide range response from 0.1 μ Sv/h to 40 mSv/h (10 μ R/h to 4 R/h).
- Ruggedized construction, waterproof detector housing and cable
- User-selectable internal alarm threshold
- Quick-disconnect connectors allow customization of cable length and facilitate easy de-contamination
- Built-in RS-232 communication connection for use with Area Monitor or WRM transmitter
- Smoothed digital display offers accurate, stable readings

Applications

- Area monitoring of containers for low dose rate areas
- Storage Installations, Environmental monitoring, Alara waiting areas
- Low-level radioactive waste material surveillance
- Facility & site boundary surveillance
- Emergency Response surveillance
- Shipping of radioactive material
- Outdoor area monitoring
- Underwater surveys

Technical Data

Display	LCD readout showing: <ul style="list-style-type: none">- Four digits for accurate and easy- Detector failure- Low battery- Overflow- Threshold
Audio	Internally mounted piezo-electric element used for "chirp" and alarm functions
Measuring range	0.5 uSv/h to 40 mSv/h (0.05 mR/h to 4000 mR/h)
Display range	10 nSv/h to 40 mSv/h (0.001 mR/h to 4000 mR/h)
Controls	<ul style="list-style-type: none">- ON/OFF push-button- RESET push-button- SPEAKER push-button
Power Source	One 9-volt cell battery or external 9V power supply Providing 50 hours minimum continuous operation and automatic battery check under full load
Detector	and automatic battery check under full load
Sensitivity (137Cs)	17 cps/mR/h
Accuracy	±10% of reading within the measuring range
Energy range	70 keV to 2.0 MeV
Energy dependence	±20% related to 137Cs
Angular dependence	Less than ±20% for 45° from centerline indicator
Temperature range	Operation: -10°C to +50°C (15°F to 122°F) Storage: -20°C to +60°C (-5°F to 140°F)
Humidity range	40% to 95% RH (non condensing)
Casing	Meter: Aluminum Detector: Aluminum, waterproof to 20 meters
Dimensions	Meter: 12 cm x 7.2 cm x 3.4 cm (4.72" x 2.83" x 1.34") Detector: 3.3 cm x 17 cm (1.3" x 6.7") without cable
Weight	Meter: 340 g (0.76 lbs) including battery Detector: 223 g (0.45 lbs) without cable
Cable length	Standard: 25 feet Maximum: 350 feet
Part #	AMP-50 (µSv/h) (incl. 9m cable) BAK-0071 AMP-50 (mR/h) (incl. 9m cable) BAK-0061

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