

AMP 100

GM Tube-based Rate Meter and Area Monitor



OVERVIEW

The AMP-100 provides real-time remote radiological monitoring. Local readout of hand-held meter allows for use as a portable survey instrument.

More importantly, since the probe's sensitive electronics are located far from the high field (25 to 350 feet away), they are not subject to destructive gamma exposure. The probe head may be placed directly into a filter compartment or against a resin tank or waste liner.

The AMP-100 is designed specifically to be used in high dose rate fields. The AMP-200 features linear response from 0.5 mR/hr to 1,000 mR/hr (5 uSv/hr to 10 mSv/hr).

FEATURES

- Rugged construction, waterproof detector housing and cable
- Quick-disconnect connectors allow customization of cable length and facilitate easy decontamination
- Built-in communication port for use with DDC-16, WRM transmitter.
- «Smoothed» digital display offers accurate, stable readings
- User-selectable internal alarm threshold

TECHNICAL SPECIFICATIONS

Radiological Characteristics

- Detector: energy compensated GM-tube
- Detection range ($\pm 10\%$): 0.5 mR/hr to 1,000 mR/hr
- Energy range sensitivity: 330 cps per R/hr
- Detector life time 20 R/Hr field for six months

Electrical Characteristics

- Power supply: 9 Volts (supplied by a 9 Volt battery located in the meter case)
- Optional 9 Volt AC adapter available
- Battery life: approximately 50 hours of continuous use

Mechanical Characteristics

- Meter dimensions (w x h x d): 6.8 x 11.9 x 1.2 cm (2.7 x 4.7 x 0.5 in)
- Probe head length: 16.5 cm (6.5 in)
- Diameter: 3.3 cm (1.3 in)
- Standard cable length: 7.6 m (25 ft)
- Maximum cable length: 106 m (350 ft)

Environmental Characteristics

- Temperature: -10° to 50°C (15 to 120°F)
- Relative humidity: 10 to 95% RH (non-condensing)

