



MIRION
TECHNOLOGIES

AREA RADIATION MONITORING

AMP-200™

Extra high range waterproof gamma detector



FEATURES

The AMP-200 monitor is designed specifically to be used in high dose rate fields. The AMP-200 unit features a dose rate range of 0.1 R/hr to 15,000 R/hr (1 mSv/hr to 150 Sv/hr)

- Rugged construction, waterproof detector housing and cable
- Quick-disconnect connectors allow customization of cable length and facilitate easy decontamination
- Built-in communication port for connection to AWM WRM2™ Transmitter
- Smoothing algorithm for digital display offers accurate, stable readings
- User-selectable internal alarm threshold

APPLICATIONS

- Real-time monitor applications in high dose rate areas. For example, the probe head may be placed directly into a filter cubicle or against a resin tank for the purpose of providing live time survey results
- Replacement of traditionally “difficult to calibrate” underwater instruments
- Local readout of hand-held meter allows for use as a portable survey instrument

DESCRIPTION

The AMP-200 unit 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.

SPECIFICATIONS

The Area Monitor Probe (AMP-200) is an extra high range GM Tube based detector designed to be continuously used in areas where high exposure levels exist. The AMP-200 unit consists of three parts: the Meter box, which includes the detector's electronics, display and pushbuttons; the Probe head, which contains the energy compensated GM Tube detector; and the connecting cable, which is fitted with a quick-connect-type connector at one end. The AMP-200 unit's connections and probe head feature watertight sealing to allow for use in underwater applications up to at least 20 meters deep.

Radiological Characteristics

- Detector: energy compensated GM-tube
- Linear response range ($\pm 10\%$): 0.5R/hr to 15,000 R/hr
- Energy range sensitivity: 77 cps per R/hr

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: 7.2 x 12 x 3.4 cm (2.83 x 4.72 x 1.34 in) (H x W x D)
- Detector dimensions: 2.45 Dia. x 14.3 cm (0.96 Dia. x 5.71 in.)
- Standard cable length: 7.6 m (25 ft)
- Maximum cable length: 106 m (350 ft)

Environmental Characteristics

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