

## High-range waterproof GM probe instrument

### AMP-100 Area Monitoring Probe

50  $\mu\text{Sv/h}$  to 10  $\text{Sv/h}$  (5  $\text{mR/h}$  to 1,000  $\text{R/h}$ ).

#### Radiation Detection Division

#### Health Physics

The AMP-100, or Area Monitor Probe, is a GM Tube-based rate meter. It has been designed specifically to be used in high dose rate fields .

The AMP-100's detector features linear response from 50  $\mu\text{Sv/h}$  to 10  $\text{Sv/h}$  (5  $\text{mR/h}$  to 1,000  $\text{R/h}$ ).

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. Thus the probe head may be located near a filter cube, rad waste stream, resin tank, or even inside the fuel pool (to take advantage of waterproof characteristics) having a longer life expectancy.

The AMP-100 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 (e.g. wired DDC 16 or wireless WRMPlus) and TeleMap



#### Features

High range response from 50  $\mu\text{Sv/h}$  to 10  $\text{Sv/h}$  (5  $\text{mR/h}$  to 1,000  $\text{R/h}$  ).

Ruggedized construction, waterproof detector housing and cable

Quick-connect connectors allow customization of cable length and facilitate easy de-contamination

Built-in RS-232 connection for use with Area Monitor or WRM transmitter

“Smoothed” digital display offers accurate, stable readings

User-selectable internal alarm threshold

#### Applications

Real-time monitor applications. For example, the probe head may be placed directly into a filter cube or against a resin tank for the purpose of providing survey results.

Replacement of traditionally “difficult to calibrate” underwater instruments

Provides real-time, remote monitoring in geometries developed for extendible “pole” rate meters (TelePole, Teletector,etc.)

Local readout of hand-held meter allows for use as a portable survey instrument

