

# PIPE/GROUND MONITOR SYSTEM

Model # PGM-2L

## FEATURES:

- SMALL DIAMETER
- HIGH SENSITIVITY
- RUGGED
- MOISTURE RESISTANT
- OPTIONALLY SUBMERSIBLE
- PORTABLE

**DESCRIPTION:** The PGM-2L is truly a **lightweight portable** monitoring system which consists of a moisture resistant BGO\* scintillation probe 5/8" in diameter and up to a 40 foot cable. The readout for this system is a Model PRS-5 Ratemeter/Scaler which includes three single channel switch selectable analyzers. The ten inch long probe contains a sensitive/rugged photo-multiplier, dynode resistor string, and a 1/2" x 2" BGO scintillation crystal.

**APPLICATION:** This system is extremely useful for location or movement of underground radioactivity by use of pipes driven into the formation.



Figure 1: PGM-2L

## SPECIFICATIONS:

**READOUT:** See PRS-5 Data Sheet

### PROBE

Length: 10"

Weight: 10 oz.

Diameter: 5/8"

Scintillator Type: BGO\*

Scintillator Size: 1/2" x 2"

Drive Capability: 40' into PRS-5 Readout Package

Sensitivity: Typically 350,000 cpm/mR/hr

Efficiency: Better than 50% for Cs<sup>137</sup> gammas

**\*High Density:** 7.13 (vs. 3.67 for NaI) nearly doubles sensitivity for gammas in general. High atomic # enhances sensitivity to low energy gammas by a further factor of up to 10.

**\*\*Options:** Immersion proof probe

**TA**

## TECHNICAL ASSOCIATES

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