

PIPE / GROUND GAMMA MONITOR SYSTEM

Model ~ PGM-2L

FEATURES:

- DETECTS GAMMA
- PORTABLE
- SMALL DIAMETER PROBE
- NaI SCINTILLATION PROBE
OPTIONAL: BGO
- HIGH SENSITIVITY
- RUGGED
- MOISTURE RESISTANT
- **OPTIONAL: SUBMERSIBLE**
- PRS-7 ELECTRONICS
- AC & RECHARGEABLE BATTERY AND CHARGER



PRS-7 ELECTRONICS



PROBE AND CABLE

DESCRIPTION:

The PGM-2L is a lightweight portable monitoring system:

APPLICATION:

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

PROBE:

- A moisture resistant BGO or NaI scintillation probe 5/8" in diameter
- Up to a 40-foot cable.
- The ten-inch-long probe contains:
 - Sensitive/rugged photo-multiplier
 - Dynode resistor string
 - A 1/2" x 2" BGO or NaI scintillation crystal.

ELECTRONICS: Model PRS-7 Ratemeter/Scaler

- Single Channel Analyzer
- Detects Gamma
- Power: AC & Rechargeable Battery and Charger
- Three Presettable Window Positions
- Switch Selectable; Six Decades
- Computer Interface: Rs-232, **Optional: USB**
- Crystal Controlled
- **IP65**



TECHNICAL ASSOCIATES

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SPECIFICATIONS:

PROBE

Length: 10"
Weight: 10 oz.
Diameter: 5/8"

DETECTOR

Scintillator Type: NaI or BGO* Scintillator
Size: 1/2" x 2"
Sensitivity: Typically, 350,000 cpm/mR/hr
Efficiency: Better than 50% for Cs Gammas
Drive Capability: 40' into PRS-7 Electronics
High Density - BGO: 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

ELECTRONICS: PRS-7

- **Readout:** 6-digit LCD Rate, 8 digit integrate.
- **Time Base:** Crystal controlled 1-10,000 seconds; user settable.
- **Display Modes:** Rate, Integrate.
- **Range:**
Usable Probes Cover Range: 1uR/hr to 1000 R/hr; 0 to 30,000 Cps; 0.1 mRem/hr to 10 Rem/hr.
- **Alarm:** 2000 Hz audio tone with audio "mute" switch + RED LIGHT, high current relay.
- **Single Channel:** PRS-7
3 Switch Selectable Windows:
2 preset (resettable) window positions plus one "variable".
- **Analyzer/Discriminator:** 10-turn, 1000 division pot for each threshold.
10-turn, 1000 division pot for window width.
- **Detector Connector:** BNC bulkhead mount (MHV optional).
- **Detector Bias:** 0-2000V regulated and filtered.
- **Front Panel Controls:** On-Off Toggle; Alarm-Mute; Rate; Integrate; Reset;
- **Supply:** High Voltage is adjustable & repeatable with the 10 turn dial.
- **Settable scale factors allow readout in almost any units.**



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- **Engineering Units:** User can input correct conversion factor and change to any units.
- **Controls:** Front Panel: On-Off, Alarm-mute, Rate, Integrate, Reset.
- **Calibration:** Digital input of calibration factor gives high precision adjustment.
- **Serial Output:** Two way, RS-232 standard, USB optional.
- **Construction:** NEMA-4X polycarbonate gasket sealed case with handle:
Rugged / splash-proof.
All plug in circuit cards.
- **Computer interface:** RS-232
- OPTIONS:** USB

POWER:

- **Power:** 105-125 volts, 50-60 Hz (220 V optional)
- **Batteries:** Rechargeable battery pack with AC Charger Adapter
- **Battery Life:** 3-5 days at 8 Hour/day



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