Strap-On Pipe Radiation Monitor

Model Series PEMO-7LE

Specifications

Sensitivity

- With a 1" x 1" crystal, without the optional shielding: detects 80μR/hr above background in 3 sec at 99% confidence level.

- Sensitivity and response time depend on user's requirements and physical circumstances such as pipe diameter, wall thickness and ambient background radiation level and energy (KeV) of major nuclides of interest.

- For Example: A system with 3" x 3" Nal detector and 2" of lead shielding has a limit of sensitivity better than 1 X 10^{-7} μCi/cc of Co-60 in 18" diameter pipe with 0.02mR/h background in one hour measurement.

Detectors

Model PGS-3	1" x 1" Nal (Tl) crystal scintillation detector probe, sensitive to all Gamma above 100 KeV depending on wall thickness of the pipe.
Mount Plate:	Blue Aluminum
Mount Strap:	Orange Adjustable Strapping

Electronics Model TBM-3D Programmable Scaler with RS-232 /485

Alarm: Settable	2000 Hz beeper, red LED
Response Time:	Settable 0.1 to 100 seconds
Readout:	6 digit LCD for each detector showing: rate and total
Power:	6 AA cells. **Optional** AC adapter 110 VAC to 240 VAC Input 9V DC Output, 0.6 amps
Flow Rate:	Measurement is independent of flowrate
Case:	Sturdy, gasket lined aluminum case
Cable:	36" BNC to BNC Cable
BNC Adapter:	Right Angle
Serial Cable:	16 feet Rj-11 to DB-9 (F)
Optional:	**USB** Adapter Model TU-S9

Weight and Dimensions

Dimensions Electronics:	3" W x 4" H x 5.3"
Dimensions Detector:	1.5" dia x 8" long
Detector Assembly Weight:	4 lbs. for unshielded system
Shipping Weight:	8 lbs. (1 detector system)

Optional:

Smart Switch:	B+B Electronics 4 Port 232-MSS2
On-Site:	Onsite set-up with users SCADA System
PGS-3L*:	2" x 2" Na(Tl) Crystal probe
Shielding:	0.25" to 3" low-activity-lead around detector
Power:	AC adapter
Data:	Data Archive and Retrieval

Call factory for more options

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