

# 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" NaI detector and 2" of lead shielding has a limit of sensitivity better than  $1 \times 10^{-7}$  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" NaI (TI) 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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