





Features

- Gamma Detection in Water Pipes
- Portable
- Quick Installation with Adjustable Straps
- Installs Anytime Anywhere
- No Penetration, No Downtime
- Sensitivity Independent of Flow Rate
- Battery Operated
- Read Out mR/hr or cps
- Real Time Alarm
- Rate and Integrated Exposure
- Local Read-Out
- Optional: USB Port
- Works Well with Standard Scada Data SYSTEMS

Strap-On Pipe Radiation Monitor

Model Series PEMO-7LE

Application

The **PEMO-7LE** is a sensitive and versatile version of the broadly used, TBM-emergency response radiation detector for Water monitoring. It may be used to monitor water in pipes or effluent streams.

Description

The **PEMO-7LE** Pipe Monitor assures accurate detection and quick alarm in case of waterborne radioactivity contamination flowing thru one or more pipes.

A constant check with alarm and data record on optionally included computer.

It provides integrated exposure information and can provide hard copy via external printer.

It is a complete system but may be expanded per need.

The **PEMO-7LE** uses a standard NaI(TI) Detector in T/A's unique Strap-On Style probe to continuously measure any Gamma emitting Radioactive water or other liquids.

- The water stream is under constant surveillance via a scintillation detector.
- The unit is completely self-contained.
- No down time

Optional

- Data archive and retrieval.
- Software package for integration into facility computer and to link multiple detectors.





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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 (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



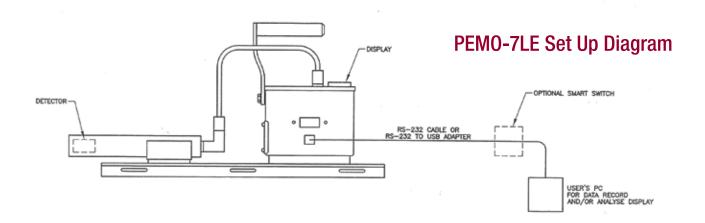


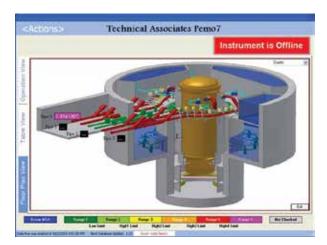
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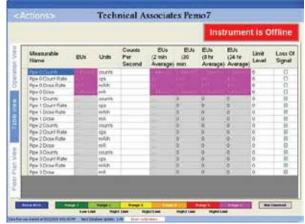


Strap-On Pipe Radiation Monitor

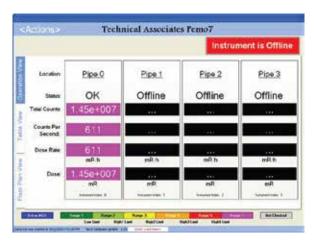
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Optional Software Screen Shots







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