STRAP-ON PIPE RADIATION MONITOR

Model ~ PEMO-7LE

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**

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.

Optional:

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







PEMO-7LE INSTALLED ON PIPE WITH **ADJUSTABLE STRAPS**





TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY



7051 Eton Ave., Canoga Park, CA 91303 818-883-7043 (Phone) 818-883-6103 (Fax)

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SPECIFICATIONS:

Sensitivity:

- With 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.

DETECTOR: 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 & 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 & Retrieval

* Call factory for more options



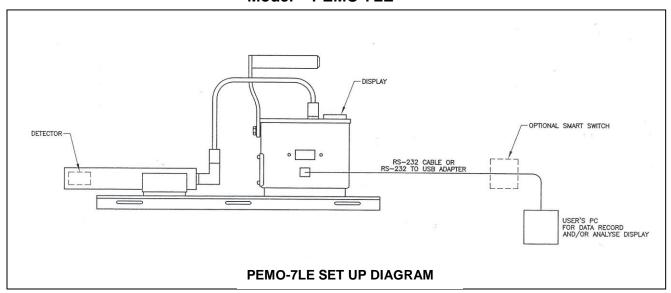


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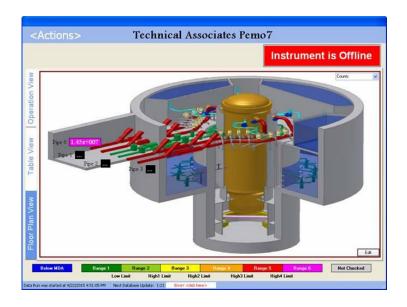


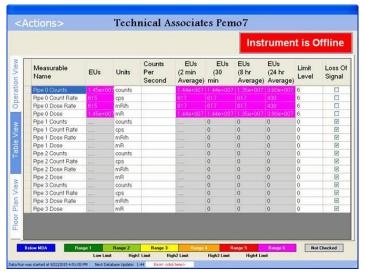
STRAP-ON PIPE RADIATION MONITOR

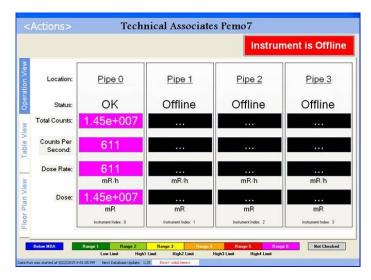
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OPTIONAL SOFTWARE SCREEN SHOTS

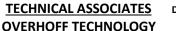
















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