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

ELECTRONICS TBM-3

- DIGITAL, PORTABLE
- BATTERY OPERATED
- READ OUT mR/hr or cps
- REAL TIME ALARM
- RATE and INTEGRATED EXPOSURE
- LOCAL READ-OUT
- OPTIONAL: USB / RS-232 SERIAL OUTPUT

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





PEMO-7LE INSTALLED ON PIPE WITH ADJUSTABLE STRAPS



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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 for an 18" diameter pipe with 0.02mR/h background in one hour measurement.

DETECTOR:	Model PGS-3-1 - 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 / RS-232 SERIAL OUTPUT		
	OPTIONAL:		

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

PGS-3LT: 2" x 2" Na(TI) Crystal probe Shielding: Low- activity-0.25" to 3" lead around detector.

Power: AC adapter

Data Archive & Retrieval Data:

Call factory for more options 818-883-7043 PT

Options:

Alarm circuit with red LED and audio alarm (User Settable) Computer Interface: USB / RS-232 serial circuit Pre-amp for proportional detectors Other connectors - MHV etc In-place rechargeable batteries



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