

# Ultra-Sensitive Tritium In Water Monitor

## Model 1925-PR and 1925-PR-SEA

### Specifications

#### Detection:

Range	4.5 Decades (Proportional Detectors only), or 6.5 Decades with Ionization Detector
Sensitivity	18,000 pCi/L in 24 hours
Display	10" Color Touch-Screen LCD
Measurement	i) 0 - 10 V, linear
Interface Outputs	ii) Ethernet
Proportional Counters	Balanced pair of copper clad acrylic counter tubes, 1.5 liters total volume each, surrounded by 1" of lead shielding
Ionization Chamber	Dual 2L ionization chambers on one axis with sample flow through both for differential tritium measurement

#### Electronics

##### Alarms, Malfunction

- i) Instrument air low flow
- ii) P-10 gas low
- iii) Chamber or power supply malfunction
- iv) Oxidizer temperature
- v) Low sample flow

##### Alert Conditions

Background high level, tritium loss of signal, background loss of signal, Tritium low counts, and background low counts

##### Alarm Conditions

- i) Tritium alert level
- ii) Tritium high level

##### Alarm Interface

- i) Fail safe relay closures
- ii) Ethernet

#### Pneumatic System

##### Hydrogen Separator

Separates inlet water into hydrogen (containing Tritium) and oxygen; O<sub>2</sub> is mixed, diluted, and exhausted safely.

##### Counter Gas

P - 10 (90% Argon, 10% Methane)  
Supply pressure: 10-14 PSIG (69-97 KPa)

Usage: 400cc per minute @ atmospheric pressure

##### Sample Flow System

Brushless Dual Bearing Diaphragm Pump, flow rate 5 lpm typical

##### Flow Meter

P-10 Gas Flow and Instrument Air Flow Adjustable 0-500 cc/min, Manual set-point 400cc/min

##### Mass Flow Meter

Sample Flow, range 0-250 cc/min, electronically controlled set-point 200cc/min

#### Weight and Dimensions:

##### Dimensions

70.9" [1800mm] High x 23.3" [600mm] Wide x 23.3" [600mm] Deep floor mounted painted steel enclosure with polycarbonate window door and key locking latch on door. Rear-hinged door and hinged side panels. IP-54, Nema 13 Rated

##### Weight

630 lbs (286 kg)

##### Power

115/230V 50/60 Hz, 100 W max.

##### Environmental

5° C to 40° C      0 - 95 % R.H.



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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