Down-Hole Tritium in Water Detector

Model # SSS-33DHC | Now 5 models to choose from

Specifications

- Sensitivity:	1 nanoCurie/ml in 30 minutes. LLD is better than the FDA drinking water standard which is 20,000 pCi/L (0.02nCi/ml) averaged over 48 hours.
- Range	0-1000 nanoCuries/ml.
- Pumping Frequency:	Typical - Twice per day.
- Above Ground Dimensions:	13" H x 21" W x 20" D. (Larger for weather house version.) Detector Housing: 30 lbs.
- Weight (Standard Unit):	Shipping: 100 lbs.

- Detector Sonde Contains:	The flow path (plumbing) all wetted parts are stainless steel or chemically inert materials. Replaceable Particulate Filter Cartridge. Replaceable Deionizer Cartridge. Stainless Steel Sonde allows easy cleaning & maintenance. Pump which operates even at deep underground/underwater 1800 psi. Ambient Scintillation Cell. Dual PM Tubes. Dual Pre-amps. Cabling. Other Electronics.

- Filtration:	Filters easily cleaned/recharged/replaced in the filed. The Technical Associates tritium detection sonde contains a 400cc screw-in replaceable cartridge consisting of two stages. The lower stage has glass wool and, **Optional,** micro-pore alumina ceramic filter for removal of particulates and gelatinous contaminants. The upper filter contains deionizer beads to remove dissolved salts and metals from the sample water. The user has the option to refill the plastic filter cartridge or to replace the plastic filter cartridge with pre-filled replacements. Both of which are low cost. The current clear-plastic filter housing allows the user to visually inspect the filter contents without opening the filter. This gives very useful information on whether filter change interval can be increased in the future for that location due to its' local ground water quality.

- Options:	Higher Temperature for sample or above ground electronics. Other output interface. Other ranges. Addition of Strontium^{90} Detector. 6 Digit LED Display. Conductivity Detectors to learn more about the ground water and to tell when ion exchange beads need replacing. Dry Hole Detector. Depth/Cable Length. Well head display electronics mounted in weather-tight housing. Data stored electronically at site. Data transmitted periodically (twice a day) to a distant data collection lab.

- Optional Back-Flushing:	To periodically reverse the direction of the pump flow, so as to flush the filters and thereby further extend the time between filter replacement

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TA

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