



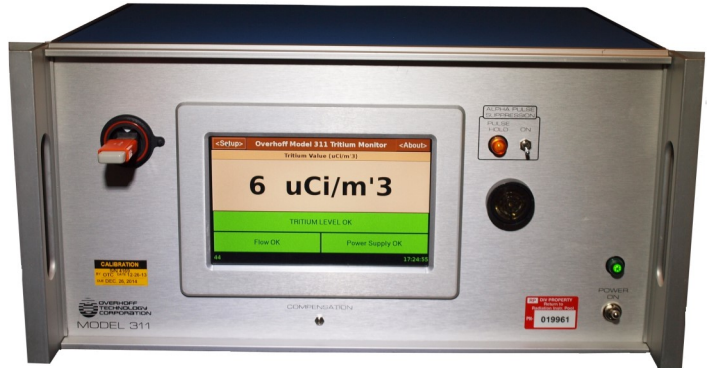
Model 311-HMI

Smart Tritium in Air Monitor Single Range, Single Chamber

MODULAR TRITIUM IN AIR MONITOR WITH A SINGLE RANGE AND SINGLE IONIZATION CHAMBER (NON-GAMMA COMPENSATED)

The **Model 311-HMI** features a single measurement range of up to 4.5 decades and a single ionization chamber. Useful for applications that don't require gamma compensation or for measuring higher concentrations of tritium, such as in process or glovebox applications.

Unique gold-plated, wire-grid ionization chambers are offered that are plate-out proof, reducing tritium/gamma contamination up to 1,000x, which is essential when measuring high levels of tritium.



A color-touch screen display interface replaces the standard digital display and discrete controls used in the traditional Model 311.

SELECT IONIZATION CHAMBER SIZE AND RANGE

The Model 311-HMI can support three different chamber sizes, depending on your desired measurement range and sensitivity:

Typical Measurement Ranges:

- 2 Liter: 1 to 19,999 $\mu\text{Ci}/\text{m}^3$ or 0.1 to 1,999.9 MBq/m^3
- 200mL: 0.1 to 1,999.9 mCi/m^3 or 0.1 to 1,999.9 GBq/m^3
1 to 19,999 mCi/m^3 or 1 to 19,999 GBq/m^3
- 50mL: 0.001 to 19.999 Ci/m^3 or 1 to 19,999 GBq/m^3
0.01 to 199.99 Ci/m^3 or 0.001 to 19.999 TBq/m^3

HMI TOUCH-SCREEN DISPLAY

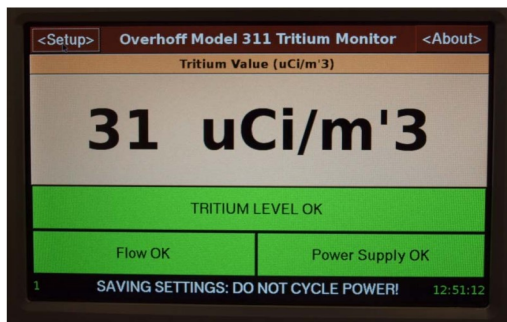
The Model 311-HMI includes a LCD touch-screen display to handle all controls (alarm set-points), indicator, and display functions.

Alarm system includes: two adjustable tritium level alarms, audible and visual alarm indicators, low flow alarm, system failure alarm (high voltage failure, low voltage failure, or electrometer failure), and up to 3 alarm relays (two level alarm relays and one malfunction alarm relay).

Unless otherwise requested, the ionization chamber is remotely mounted (25 ft cable standard) from the 311 electronics. An external pump system can be added that consists of a pump, filter, and flowmeter assembly.

Applications:

- ◆ Room air
- ◆ Non-Gamma Compensated
- ◆ Process piping
- ◆ Glove boxes
- ◆ High concentrations of tritium
- ◆ Remotely Mounted Detector
- ◆ Modular customization of detectors, range, alarms, outputs, pump system



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