

Radiation Survey Meter

5 Reasons to Choose a 452 over a 451P

For Internal Use Only

Technology

- The 451P uses a pressurized ionization chamber to measure radiation making it difficult to ship because it is classified as hazardous material.
- The 452 uses a combination of solid state sensors and a GM pancake which is not classified as hazardous material.

Energy Dependence

- The energy response of the 451P is not flat in the diagnostic energy range, therefore, the user must know the mean energy and use that information to manually apply corrections to obtain accurate dose readings.
- The energy response of the 452 is flat throughout the diagnostic and therapeutic energy range.

Data Storage

- The 451P cannot store data which means that the user must record measurements manually after each measurement.
- The 452 can store data for up to 4000 measurement events and it stores dose rate data every 5 seconds.

Connect to PC

- The 451P can be connected to a PC, but the data connection is RS-232 and uses an outdated Excel add-in
- The 452 can be connected to a PC with a USB cable. RaySafe View software allows the user to view live data and upload stored data. The data can be analyzed in Excel.

Versatility

- The 451P comes in two versions, one which measures Air Kerma in Röntgen and a second which measures in Sieverts. The user must choose one or the other at the time of purchase and it cannot be converted to the other model.
- The 452 Full version measures in Röntgen, Gray, Rad, Rem, Sieverts, and Counts; all user-selectable.