

Hand, Shoe and Clothing Scintillation Monitor

Model: HSM-10ABS

Operations

No training or particular skill is required in the operation of **HSM-10 Series** monitors. The user inserts hands into the two waist-high probe openings.

The counting process is started and continued by pressure of the fingertips at the rear of the probe openings, and by the weight of the person on the shoe deck. As soon as the counting starts, the “Ready for Use” message is replaced by “Counter in Operation”.

Note: If at any time during the counting cycle, the user removes either hand from the hand probe or steps off the shoe deck, the cycle will automatically stop and the orange message,

“Check Incomplete - Reset and Repeat” will light up. This positive warning prevents erroneous readings.

As soon as the preset time has elapsed, the “Counter in Operation” is replaced by either the green “Check O.K.” panel or the bold red “Decontamination Required”. Message is dependent upon whether the radioactivity present is above or below the alarm setting.

If decontamination is required, bold red panels marked “Left Hand”, “Right Hand”, or “Left or Right Shoes” will light up, indicating the location of contamination.

The degree of contamination is indicated on the digital readout. After the check is completed, the instrument is automatically ready for the next user.

****The CLOTHING PROBE**, is used to detect contamination on hair and clothing. The output of the clothing probe is read visually on its own count rate meter and audibly by the speaker.

The clothing Probe consists of the extremely sensitive T/A **Model P-15 Pancake Unit**. It has a wide face and a thin window and high sensitivity for fast checking of surfaces.

Specifications: HSM-10ABS – Beta and Gamma

Sensitivity:	Less than .01 μC of 0.2 MeV or higher beta.
Detectors:	Dual phosphor ZnS Alpha and plastic Beta/Gamma scintillation detectors. Two (2) per hand and two (2) per foot totaling eight (8). Optional Clothing probe is a T/A Model P-15 with a T-1190 pancake Alpha, Beta, Gamma sensitive GM tube.
Counters:	Three separate five-digit on-screen Counters for hands (2) and shoe (2), clothing (1)
Shielding:	Hand and Shoe detectors are shielded by 1/4" lead.
Count Time:	Resettable 10, 20 or 30 seconds.
Count Range:	0-99,999 counts Digital each hand or both feet; Clothing probe has four digital output: 0-500,000 cpm.
Alarm:	Audio / Visual Continuously settable to 10,000 total counts, either hand or either shoe. Loss of signal
Activation Switch:	Correct hand position
Readout:	User Settable Units: cps, sv, cpm, Bq, μCi , etc. Ready for Use, Counter in Operation, Check Incomplete, Reset and Repeat, Check O.K., Decontamination Required, Left Hand, Right Hand, Right Shoe, Left Shoe. A 5" meter for clothing probe, plus audible signal.
Environment:	Temperature: <45° C; Optional: 0°-55° C; RH: <90%



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