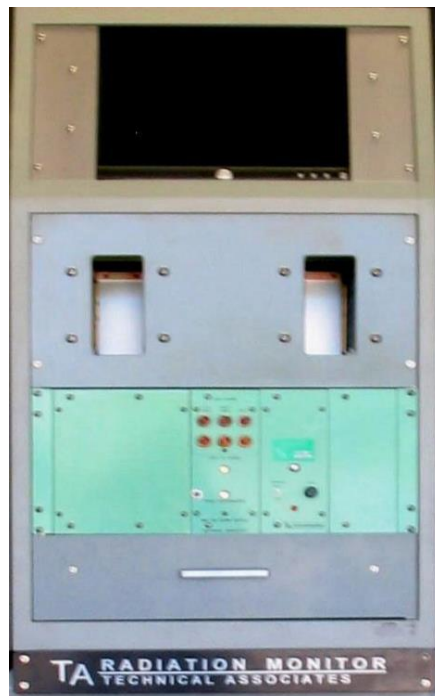


ALPHA HAND & CLOTHING MONITOR

Model ~ HSM-10AS

FEATURES:

- DETECTS ALPHA
- (4) SCINTILLATION ZnS(Ag) DETECTORS
- OVER RANGE INDICATOR
- FULL DYNAMIC BACKGROUND SUBTRACT
- COLOR MONITOR READ-OUT
- ALARM SETTINGS NEAR BACKGROUND
- POSITIVE WARNING OF INCOMPLETE CHECK
- EXTERNAL CLOTHING SCINTILLATION ZnS(Ag) PROBE WITH SEPARATE CIRCUIT, METER, & SPEAKER
- BENCH TOP **OPTIONAL**: CART MOUNT
- MODULAR ELECTRONICS
- BUILT-IN COMPUTER
- DATA ARCHIVE & RETRIEVAL
- USB / ETHERNET PORTS
- **IP41**



Models **HSM-10AS**, Hand and Clothing Monitors are health physics instruments.

Designed to provide completely automatic detection and measurement of Alpha contamination on the palm and back of each hand and clothing.

Extremely simple operation allows the individual worker to perform this check without direct supervision of the health physicist.

DESCRIPTION:

The **HSM-10 series** monitors feature large full color LCD display screen that enable the user to tell - in one look - whether he is contaminated, and location of contamination.

Numerical read-outs are provided along the bottom of the monitor panel, showing the total count on each hand.

An outstanding feature of the instrument is the low warning levels, permitting alarm settings as low as the background count.

A separate rate meter circuit is provided for the EXTERNAL CLOTHING PROBE, including a speaker for audible check and a meter for visual check.

All the detecting elements and sections exposed to contamination are designed for easy decontamination.



TECHNICAL ASSOCIATES

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USNUCLEARCORP
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ALPHA HAND & CLOTHING MONITOR

Model ~ HSM-10AS

OPERATION:

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 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**, 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 Alpha sensitive Scintillation Probe ZnS(Ag) with high sensitivity for fast checking of surfaces.

SPECIFICATIONS: HSM-10AS

Sensitivity:	Less than .01 μ C of >4.2 MeV.
Detectors:	Four Scintillation Probes ZnS(Ag) (2) each hand. Clothing probe is an Alpha sensitive Scintillation (PAS-8) Probe ZnS(Ag) A with knurled handle.
Counters:	Three separate five-digit on-screen Counters for hands and clothing.
Shielding:	1/4" lead.
Count Time:	Resettable 10, 20 or 30 seconds.
Count Range:	0-99,999 counts Digital each hand; Clothing probe has four analog ranges: 0-500; 5,000; 50,000; 500,000 cpm. OVER RANGE INDICATOR
Alarm:	Continuously settable to 10,000 total counts, either hand or clothing.
Readout:	Ready for Use, Counter in Operation, Check Incomplete, Reset and Repeat, Check O.K., Decontamination Required, Left Hand, Right Hand. Clothing A 5" meter for clothing probe, plus audible signal.
Environment:	Temperature: <45° C ; RH:<90%
Power Requirements:	105 to 125 volts, 60 cycle A.C., (220V A.C, 50/60Hz optional)

WEIGHT & DIMENSIONS:

Dimensions:	Cabinet: 36" high x 27-1/2" wide x 24" deep.(91.4 cm x 69.9 cm x 61 cm)
Weight:	200 lbs. (90.7 kg)
OPTIONAL:	Cart Plases see HSM Series Comparison Chart



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ALPHA HAND & CLOTHING MONITOR

Model ~ HSM-10AS

HSM SERIES ~ COMPARISON			
WHOLE BODY, HAND, SHOE & CLOTHING MONITOR COMPARISON			
MODEL	DETECTION	DETECTOR TYPE	EXTERNAL TOOL MONITOR
HSM-360 WHOLE BODY & TOOL BOX	ALL BETAs including LOW ENERGY BETAS ULTRA LOW SENSITIVITY TO GAMMAS	TOTAL (11) THIN BETA PLASTI C SCINTILLATION (11) Total Separate Read Outs (8) Locations (2) Foot (1 Left) (1 Right) (4) Hands (2 Left/ Back & Palm) (2 Right / Back & Palm) (2) Body (1) Front (1) Back (1) Head (2) Tool Drawer (1 Top), (1) Bottom	YES
			EXTERNAL CLOTHING PROBE
			NO
MODEL	DETECTION	DETECTOR TYPE	EXTERNAL CLOTHING PROBE
HSM-10A (HAND & SHOE, CLOTHING)	BETA / GAMMA	TOTAL (10) THIN SIDE WALL GM (4) GM T-1100 Per hand; (1) GM T-1200 Per foot OPTIONAL: (1) each additional GM T-1200 for each foot TOTAL (12)	YES TA – P15; GM T-1190
HSM-10B (HAND & SHOE, CLOTHING)	ALPHA, BETA, GAMMA	TOTAL (12) THIN WINDOW PANCAKE GM T-1190 (4) GM T-1190 Per hand; (2) GM T-1190 Per foot	YES TA – P15; GM T-1190
HSM-10ABS (HAND, SHOE, & CLOTHING)	SEPARATE & SIMULTANEOUS ALPHA & BETA	TOTAL (8) SCINTILLATION Dual phosphor ZnS Alpha and plastic Beta/Gamma scintillation detectors. (2) Per hand; (2) Per foot.	YES TA – P15; GM T-1190
HSM-10G (HAND & SHOE)	SEPARATE & SIMULTANEOUS ALPHA & BETA	TOTAL (6) GAS FLOW PROPORTIONAL 10-3/4" x 6-1/4" each side – (2) Per hand detectors. 16-1/4" x 6-1/4" each shoe – (1) Per shoe.	NO
HSM-10AS (HAND & CLOTHING)	ALPHA	TOTAL (4) ALPHA SCINTILLATION ZnS(Ag (2) Per hand.	YES TA PAS-8 – ZnS(Ag)
HSM-P-20 (Portable HAND, FOOT & CLOTHING)	BETA / GAMMA OPTIONAL - ALPHA	TOTAL (4) THIN WINDOW PANCAKE GM T-1190 (2) Portable Hand / Clothing Detector (2) Portable Shoe Detector. (1) Wheeled Travel Case	YES TA P-15; GM T-1190



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