



Alpha and Beta/Gamma Gas Proportional Hand and Shoe Monitor

Model: HSM-10G

Features

- Detects Alpha and Beta/Gamma Separately and Simultaneously
- (6) Gas Flow Proportional Detectors
- Full Dynamic Background Subtract
- Color Monitor Read-Out
- Individual Alpha and Beta/Gamma Alarms
- Alarm Settings as Low as Background
- Positive Warning of Incomplete Check
- External GM Clothing Probe with Separate Circuit, Meter and Speaker
- Shielded Easy Decontamination of Gas Flow Detectors
- Modular Electronics
- Built-In Computer
- Data Archive and Retrieval
- USB / Ethernet Ports
- **IP41**
- The HSM-10G monitors both Alpha and Beta/Gamma in each of three channels.
- Left foot, Right foot, and Hands (* see specs for other options).
- Each channel has separate alarm level set switches for Alpha and for Beta/Gamma radiation.
- Background is monitored continuously while the system is unoccupied.
- Background subtraction uses the most recent Beta/Gamma background count.
- Time for the monitoring count is preset on a versatile digital timer with choices from 1 to 99 seconds in one second intervals.
- This preset time is also the background update time.
- The Beta/Gamma alarm switch for each channel sets the count above background needed within the preset time period to excite an alarm.
- Alpha background is low (typically \ll 10 cpm) and may be neglected or counted by the HSM-10G and added to give best



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DIVISIONS OF



USNUCLEARCORP

OTCQB-UCLE

Alpha and Beta/Gamma Gas Proportional Hand and Shoe Monitor

Model: HSM-10G

Specifications: HSM-10G

Options: Left Hand, Right Hand, Both Feet or Left Foot, Right Foot, Both Hands.

Gas Flow Proportional Detectors

Hand Detectors:	10-3/4" x 6-1/4" each side - 4 hand detectors.
Shoe Detectors:	16-1/4" x 6-1/4" each shoe - 2 shoe detectors.
Detector Construction:	Hinged mounting for easy access and decontamination.
Shielding for Background Reduction:	0.5 mg/cm ² aluminized Mylar detector windows with protection screen 73% open area.
Optional Shielding:	>255 pi shielding about detectors - steel 0.7" lead equivalent.
3 Channels:	Left foot, Right Foot, Both Feet; Right Hand, Left Hand, Both Hands
Utility Scaler:	0 to 99,999 plus overflow with LED display. Options to switch to Left Shoe Alpha; Left Shoe Beta; Right Shoe Alpha; Right Shoe Beta; Hands Alpha; Hands Beta.
Channel Counting Time:	User Selectable from 1 second to 99 seconds in 1 second increments.
Background Update Interval:	Background updates automatically whenever unit is not occupied. Background update interval same as channel counting time.

Alarms:

Background:	Sonalert plus front panel light indicators. Adjustable in 10 steps - 100 counts to 1,000 counts.
Low Level Alarm:	(indicates malfunction) - front panel light indicator (factory set).
Channel Alarms:	Sonalert plus front panel light indicators. Selectable in 1 count increments: Alpha - 0 to 99 counts; Beta-Gamma - 0 to 999 counts.
Check Incomplete:	Sonalert plus projector warning.
Projector Warning System:	Front panel screen 3-1/2" x 2-3/4"

Display Messages - only one message displayed at one time.

- Contamination (location of contamination channels and whether Alpha or Beta contamination also displayed).
- Counter In Operation
- Check Incomplete - Reset and Repeat

Front Panel Indicators:	Message Projection, High Background Alarm Light, Low Level Alarm Light, Power-On Light
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Use Count Register:	(Audit instrument use) - 0 to 99,999 (Optional)
Power Source:	115 VAC, 60 hz (200-240 V, 50-60 hz optional)

Weight and Dimensions:

Dimensions:	Cabinet: 67-3/4" high x 27-1/2" wide x 24" deep. Shoe Deck: 23" long x 18" wide x 4-1/2" high.
Shipping Weight:	650 lbs



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MODEL	DETECTION	DETECTOR TYPE	EXTERNAL CLOTHING PROBE
HSM-10A	BETA / GAMMA	THIN SIDE WALL GM (4) GM T-1100 Per hand; (2) GM T-1200 Per foot TOTAL (8) OPTIONAL (1) each additional GM T-1200 for each foot TOTAL (12)	YES TA- 15; GM T-1190
HSM-10B	ALPHA, BETA, GAMMA	THIN WINDOW PANCAKE GM T-1190 (4) Per hand (2) Per foot TOTAL (12)	YES TA-P15; GM T-1190
HSM-10ABS	SEPARATE & SIMULTANEOUS ALPHA & BETA	SCINTILLATION Dual phosphor ZnS Alpha and plastic Beta/Gamma scintillation detectors. (2) Per hand; (2) Per foot. TOTAL (8)	YES TA- P15; GM T-1190
HSM-10G	SEPARATE & SIMULTANEOUS ALPHA & BETA	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. TOTAL (6)	NO
HSM-10AS (HAND & CLOTHING ONLY)	ALPHA	ALPHA SCINTILLATION ZnS(Ag (2) Per hand. TOTAL (4)	YES TA-PAS-8 – ZnS(Ag)
HSM-P-20 (Portable HAND, FOOT & CLOTHING)	BETA / GAMMA OPTIONAL - ALPHA	THIN WINDOW PANCAKE GM T-1190 (2) Portable Hand / Clothing Detector (2) Portable Shoe Detector. TOTAL (4)	YES TA-P-15 GM T-1190



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