

ALPHA & BETA/GAMMA GAS PROPORTIONAL HAND & SHOE MONITOR

Model ~ HSM-10G

FEATURES:

- DETECTS ALPHA & BETA/GAMMA SEPARATELY & SIMULTANEOUSLY
- (6) GAS FLOW PROPORTIONAL DETECTORS
- FULL DYNAMIC BACKGROUND SUBTRACT
- COLOR MONITOR READ-OUT
- INDIVIDUAL ALPHA & BETA/GAMMA ALARMS
- ALARM SETTINGS AS LOW AS BACKGROUND
- POSITIVE WARNING OF INCOMPLETE CHECK
- EXTERNAL GM CLOTHING PROBE WITH SEPARATE CIRCUIT, METER & SPEAKER
- SHIELDED EASY DECONTAMINATION OF GAS FLOW DETECTORS
- MODULAR ELECTRONICS
- BUILT-IN COMPUTER
- DATA ARCHIVE & 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 & 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 << 10 cpm) and may be neglected or counted by the HSM-10G and added to give best preset Alpha count.



TECHNICAL ASSOCIATES
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ALPHA & BETA/GAMMA GAS PROPORTIONAL HAND & 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.	
	<ul style="list-style-type: none">• 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
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 & 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.



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Shipping Weight: 650 lbs.

HSM SERIES ~ HAND, SHOE & CLOTHING MONITOR COMPARISON			
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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