

ALPHA AND BETA-GAMMA HAND & SHOE MONITOR WITH DIGITAL DYNAMIC BACKGROUND SUBTRACT

Model # HSM-10GP –
Sealed Detectors - No Gas Flow

FEATURES:

- READS ALPHA AND BETA-GAMMA SEPARATELY AND SIMULTANEOUSLY
- AUTOMATICALLY ADJUSTS FOR CHANGING BACKGROUND LEVELS
- ALL MODULAR INTEGRATED CIRCUIT DIGITAL CIRCUITRY
- TILTED READOUT PANEL AT EYE LEVEL FOR EASY VIEWING
- PROJECTOR WARNING SYSTEM
- LOW LEVEL ALARM, HIGH BACKGROUND ALARM AND CONTAMINATION ALARM
- AUDIBLE WARNING IF HANDS OR SHOES ARE MOVED OFF OF DETECTION AREA BEFORE END OF COUNTING TIME
- INDIVIDUAL ALPHA AND BETA-GAMMA VISUAL ALARM INDICATORS
- SHIELDED EASILY DECONTAMINATED SEALED DETECTORS
- FILTERING AND CABLING DESIGN MINIMIZES ELECTROMAGNETIC INTERFERENCE FROM EXTERNAL SOURCES



GENERAL DESCRIPTION: Operation is digital. Indicators include LED's and warning projection with warnings projected onto a front panel screen in a large and very effective display. A five digit plus overflow LED display can be switched to each channel for alpha, beta, or background displays for aid in calibration. The display and controls are behind a locked cabinet door. Counting time for all channels is preset on a digital timer with choice of 1 to 99 seconds in 1 second increments. High sensitivity is achieved by using spring loaded hand detectors, large, minimum thickness detector windows and maximum transmission protection screens.

TA TECHNICAL ASSOCIATES

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Model # HSM-10G

SPECIFICATIONS:

*Options of : left hand, right hand, both feet or left foot, right foot, both hands.

Hand Detectors: 2" dia. x 1/2" deep. 4 Tubes per Hand (8 Total).

Shoe Detectors: 2" dia. x 1/2" deep. 3 Tubes per Foot (6 Total).

Detector Construction: Thin Window, Sealed Proportional Detectors for easy access and decontamination. Shielding for background reduction. <2.2 mg/cm Mica detector windows with protection screen 73% open area.

Shielding:

2 pi shielding about detectors - 0.7" lead. (**Optional**) Other shield thickness also available.

Channels: Left shoe, right shoe, hands or left hand, right hand, both feet or left foot, right foot, both hands.

Utility Scaler: 0 to 99,999 plus overflow with LED display. Can switch to left shoe alpha; left shoe beta; right shoe alpha; right shoe beta; hands alpha; hands beta.

Calibration Factors: Each Channel has easy enter a Calibration Factor so the HSM can readout in Raw Counts (calfactor=1) or Bq/100cm² or other units of the user's choosing.

Channel Counting Time: 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" with display of following messages - only one message displayed at one time.

Contamination (location of contamination channels and whether alpha or beta contamination also displayed).

Check OK

Ready for Use

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)

Dimensions: Cabinet - approximately 67" high x 27" wide x 24" deep (170 x 70 x 60 cm)

Shipping Weight: 650 lbs. (295 kilos) Includes **Optional** shielding.

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