

PORTABLE BETA-GAMMA HAND, SHOE, BODY MONITOR

Model ~ HSM-P-20

FEATURES:

- PORTABLE
- DETECTS BETA, GAMMA
- DIGITAL DUAL DISPLAY
- 2 SEPARATE SCALE FACTORS FOR RATE & TOTAL
- 0.1-99 sec TIME CONSTANT FOR RATEMETER
- 8 DIGIT LCD DISPLAY
- ALARM - AUDIO/VISUAL
- BATTERY POWER; **OPTIONAL**: RECHARGEABLE BATTERIES
- TWO DETECTORS (4 TOTAL SENSORS)
 - ONE HAND & CLOTHING P-15/2 GM SENSOR WITH HANDLE
 - ONE FOOT PROBE WITH (2) T-1190 GM PANCAKE SENSORS
- RUGGED WHEELED CASE WITH EXTENSION HANDLE
- **OPTIONAL**: ALPHA
- USB PORT - **OPTIONAL**: RS-232 SERIAL PORT
- **CE MARK**; IP64



PRS-2S
ELECTRONICS



HAND & BODY DETECTOR
(2) T-1190 SENSORS



SHOE DETECTOR
(2) T-1190 SENSORS



HAND & SHOE & BODY SYSTEM
CASE

APPLICATION:

The **HSM-P-20** is a lightweight portable shoe, hand & clothing detectors perfect for field use. It uses the PRS-2 electronics used as both a Digital Ratemeter / Scaler.

- Battery operated.

DESCRIPTION:

The **PRS-2** is a multi-purpose lightweight Scaler with internal replaceable battery.

- Includes a digital ratemeter operating mode presenting 6 full decades of accurate readout without switching.
- The **PRS-2** is a sturdy portable instrument incorporating both scaler and ratemeter functions.
- Gate time for the scaler is free running mode.
- Readings directly in mR/hr or other units can be made by choosing correct scaling factors for electronics and material being monitored.



TECHNICAL ASSOCIATES

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303

PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM



PORTABLE BETA-GAMMA HAND, SHOE, BODY MONITOR

Model ~ HSM-P-20

SPECIFICATIONS HSM-P-20

Detector: (2) T-1190 GM Pancake sensors in hand and clothing detector.
(2) T-1190 GM Pancake sensors in foot detector.
Quick Disconnect
Detector Bias Supply: 900 V DC regulated and filtered - other voltage levels-optional.

SPECIFICATIONS PRS-2S:

Electronics – PRS-2S

- DUAL DISPLAY
 - Reads out from 2 separate probes simultaneously
- 2 SEPARATE SCALE FACTORS FOR RATE & TOTAL
- HIGH VOLTAGE 400V-1200V DC
- 0.1-99 sec TIME CONSTANT FOR RATEMETER
- 8 DIGIT LCD DISPLAY
- ALARM - AUDIO/VISUAL
- USB PORT
- **CE MARK**
- **IP64**

Power: Batteries: 6 AA cells or optional in-place rechargeable batteries.

Battery Life: 100 hours with Alkaline cells (200 hours with - Lithium cells).

Construction: All plug-in circuit cards, essentially no wires. Rugged, lightweight.

Temperature: 14 °F to 104 °F (-10 °C to 40° C)

Dimensions & Weight:

- **Electronics:** 3.25" D x 4.25 W x 7.25" H. (8 x 10.7 x 18.4 cm)
Weight: 2 lbs. (0.9 kg)
 - **Foot Detector:** 14" L x 4" W x 7" H (35.5 x 10 x 17.7 cm)
Weight: 15 lbs. (6.8 kg)
 - **Hand & Body Detector:** 6" L x 3.5" W x 1" H (15.2 x 8 x 2.5 cm) (No Handle)
17.5" L x 3.50" W x 1" H (44.5 x 8.8 x 2.5 cm) (With Detachable Handle)
Weight: 2 lbs. (0.9 kg)
 - **Carrying Case:** 20 lbs.; (9 kg) Wheeled with Extension Handle (LGPEL-W)
- Total Weight:** 43 lbs. (19.5 kg)



TECHNICAL ASSOCIATES

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303

PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISION OF



USNUCLEARCORP

OTCQB:UCLE

PORTABLE BETA-GAMMA HAND, SHOE, BODY MONITOR

Model ~ HSM-P-20

Electronic Options: RS-232 serial port
Alpha, Beta, Gamma Detectors
Rechargeable Batteries & AC Charger

Digital Display	RATEMETER	SCALER
Range	6-digit LCD	8-digit LCD
User Settable; Scale Factor	0.1 - 20,000 count/sec	•0-10,000,000; Total counts
Time Constant	0.01 to 99 seconds Display Refresh Rate	Free Running

Plases see HSM Series Comparison Chart



TECHNICAL ASSOCIATES

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303

PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISION OF



USNUCLEARCORP

OTCQB-UCL

PORTABLE BETA-GAMMA HAND, SHOE, BODY MONITOR

Model ~ HSM-P-20

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 PLASTIC 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, SHOE & 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



TECHNICAL ASSOCIATES

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303

PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

DIVISION OF

