ADVANCED TECHNOLOGY FOR A SAFER WORLD

HP-380 Series Hand Probe



The HP-380 series Hand Probes are general purpose survey and frisking probe with excellent sensitivity to alpha and beta with minimum interference from gamma backgrounds. The large 100 cm2 active area allows rapid surveying and direct correlation to industry standards.

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Three models are available which include:

detectio

Model HP-380A, alpha detection Model HP-380B, beta detection Model HP-380AB, alpha & beta detection

FEATURES

- Alpha & Beta Detectors
- Alpha /Beta Discrimination
- 100 cm2 Active Detector Area
- Light Weight, Rugged Design
- Ergonomic Design

The detection elements include ZnS(Ag) for alpha and plastic scintillator for beta. The HP-380AB utilizes a dual phosphor element with excellent discrimination capability between alpha and betas.

The detector face is protected by a fine mesh, stainless steel screen to guard against punctures. The probe design is constructed from light weight aluminum which promotes ruggedness and ergonomic handling.

This detector is also available as a "Smart" probe which includes a memory device to store all calibration and functional parameters for smart instruments like the FH 40 G Family of advanced survey meters.

SPECIFICATIONS

Application:	Alpha/Beta surveys, frisking	Window Area:	2.72" x 5.7" (11.4 in2) 6.9 x 14.5 (100 cm2)
Detector Type:	Dual Phosphor scintillator	Window Thickness:	3 layers of 0.29 mg/cm2 (0.87 mg/cm2 total)
Scintillator:	Alpha: ZnS(Ag) Beta: NE102 Plastic	Gamma Sensitivity:	< 12,000 cpm/mR/h (137Cs, in the alpha/beta window) < 1.0 cpm/mR/h (137Cs, in the alpha window)
Operating Voltage:	600 V nominal	Size:	11.25" long x 2.75" wide x 3.25" high (28.6 cm x 7 cm x 8.3 cm)
Temperature Range	-400 to +1400 F (-400 to 600 C)	Weight:	1.37 lbs. (0.59 kg)
Housing:	Cast aluminum body	Connector:	MHV (Smart probes use the Thermo Smart Connector)

Efficiency (4pi)	HP-380A (Alpha Only)	HP-380B (Beta Only)	HP-380AB (Alpha & Beta)
⁹⁰ Sr ⁹⁰ Y		26%	22%
⁹⁹ Tc		14%	9%
²³⁹ Pu	21%		18%



OPTIONS	
- Smart Probe: Order Model SHP-	
380A for alpha	
- SHP-380B for beta	
- SHP-380AB for alpha/beta	•
- Smart Probe Conversion: Order	
SMARTPACMHV	