

HP-360

Hand Probe Alpha/Beta/Gamma



Features

- Thin Window “Pancake” GM
- High Beta Sensitivity
- Protective Window Screen
- Ergonomic Enclosure

The Model HP-360 hand probe provides a sensitive beta detector, featuring a “Pancake” GM tube with a thin mica window. The HP-360 is identical to Thermo Electron's Model HP-260 with the exception of a new and stylish plastic housing.

This black housing is constructed from rugged ABS plastic and features an etched stainless steel screen (79% open area) over the GM tube to prevent punctures. The HP-360 design is also very ergonomic to fit in one's hand with greater comfort.

System Specifications

This detector permits useful beta sensitivities down to 40 keV and is alpha sensitive above 3 MeV. The background sensitivity to ^{137}Cs is approximately 3600 cpm/mR/hr and it is capable of seeing low energy photons down to approximately 10 keV.

The HP-360 is designed for contamination surveys on personnel, table tops, floors, equipment, etc. This detector is also available in a "Smart" configuration (Model SHP-360) for use with Thermo Electron's new generation of smart instruments like the Model E-600.



Operating Voltage

- 900 \pm 50 Vdc

Plateau Length

- 100 Volts minimum

Plateau Slope

- 0.1 % per V maximum

Dead Time

- 50 μs maximum

Temperature Range

- -30 $^{\circ}\text{C}$ to 75 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 167 $^{\circ}\text{F}$)

Mica Window Thickness

- 1.4 to 2.0 mg/cm^2

Mica Window Size

- 4.45 cm dia. (1.75")

Active Area

- 15.5 cm^2 (2.4 in^2)

Beta Efficiencies

- ^{137}Cs = 22%
- ^{60}Co = 16%
- ^{90}Sr ^{90}Y = 32%
- ^{99}Tc = 15%
- ^{14}C = 6%

Alpha Sensitivity

- 3 MeV at window

Connector

- BNC (Smart SHP-360 uses the Thermo Electron Smart connector)

Size

- 24.8 cm x 6.8 cm x 7 cm (9.75" L x 2.68" W x 2.75" H)

Weight

- 0.23 kg (0.5 lb)

OPTIONS

Smart Probe

- Order part number SHP-360

Smart Probe Conversion

- To convert an existing HP-360 to a smart detector, order partnumber "SMARTPACBNC"

Check Source

- Order part number CS7A, approximately 5 μCi , ^{137}Cs

Probe Mounting Clip

- Order part number ZP11581038

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