

HP-360

Hand Probe Alpha/Beta/Gamma



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 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.

This detector permits useful beta sensitivities down to 40 keV and is alpha sensitive above 3 MeV. The background sensitivity to ¹³⁷Cs is approximately 3600 cpm/mR/hr and it is capable of seeing low energy photons down to approximately 0 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's smart instruments like the Model FH-40.

SPECIFICATIONS

Operating Voltage

900 + 50 Vdc "

Plateau Length

100 Volts minimum "

Plateau Slope

0.1 % per V maximum "

Dead Time

50 is maximum "

Temperature Range

-30 °C to 75 °C (-22 °F to 167 °F)

Mica Window Thickness

1.4 to 2.0 mg/cm²

Mica Window Size

4.45 cm dia. (1.75")

Active Area

15.5 cm² (2.4 in²)

Beta Efficiencies

¹³⁷Cs = 22%

⁶⁰Co = 16%

⁹⁰Sr ⁹⁰Y = 32%

⁹⁹Tc = 15%

¹⁴C = 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 Part number SMARTPACBNC

Check Source

Order part number CS7A
approximately 5 uCi, ¹³⁷Cs

Probe Mounting Clip

Order part number ZP11581038

Features

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

