

## HP-190A Hand Probe



### Features

- Thin End Window GM
- High Beta Sensitivity
- Window Protective Screen

The Model HP-190A hand probe uses a thin end window GM tube for detection of relatively low energy beta, and provides a limited sensitivity to high energy alpha particles. The HP-190A does not have energy compensation; therefore, it is not recommended for gamma exposure rate measurements.

## Specifications

### Operating Voltage

- 900±50V

### Plateau Length

- 100 V minimum

### Plateau Slope

- 0.1% per V maximum

### Dead Time

- 200 µs maximum

### Temperature Range

- -55 °C to 75 °C  
(-67 °F to 167 °F)

### Mica Window Thickness

- 1.4 to 2.0 mg/cm<sup>2</sup>

### Mica Window Size

- 2.9 cm dia. (1.1")

### Gamma Sensitivity

- =2500 cpm/mR/h (<sup>137</sup>Cs)  
(into window)

### \*Beta Efficiency

- <sup>90</sup>Sr-<sup>90</sup>Y = 35%
- <sup>99</sup>Tc = 25%
- <sup>14</sup>C = 10%

### Alpha Sensitivity

- 3 meV at window

### Connection

- BNC series coaxial

### Size

- 3.5 cm dia. x 12.4 cm long  
(1.4" dia. x 4.9" long)

### Weight

- 155 g (5.5 oz)



E600

\*Measured without screen cap. With cap in place, efficiency will be =50% of values listed. Efficiencies listed as percent of 2π emission rate from a one-inch diameter source.

## OPTIONS

Instruments	Cables
ASP-2	CA-16-60
E600	CA-102-36
RM 25	CA-16-6



RM-25

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