Detectors/Probes

WB Johnson Hand Held Instruments

The HP-265, commonly known as the "Pancake" probe, has become the most popular detector for the general measurement of Alpha, Beta, and Gamma measurements. Built inside a ruggedized housing, this detector is the best general detector for most types of measurement applications.

HP-265 Alpha, Beta, Gamma Pancake Detector

General	The best "all-purpose" detector. Sensitive to most Alpha, Beta, and Gamma Radiation
Compatibility	Compatible with all WB Johnson Instruments and Area Monitors (Additional Manufacturer compatibility upon request)
Range	0-200 mR/hr Dose (Cs-137) Requires linearization above 50 mR/hr
Energy Response	Alpha - 3.5 meV min, Beta - 1 keV min, Gamma - 20 keV-2 meV
Operating Voltage	900vdc
Window Density	1.6 mg/cm3
Dead Time	20 uSec
Sensitivity (Cs-137)	3300 CMP/mR/hr
Sensitive Area	15 cm2
Environmental	-20°F (-28°C) - 140°F (60°C) | 5-95% RH
Circuitry	100% Digital Microprocessor Controlled
Dimensions	2.74" (7cm) Dia x 5.511" (28cm) L
Weight	1lbs. (.5Kiles)
Construction	Cast Aluminum & Stainless Steel

The GP Series detectors are excellent detectors for general gamma monitoring. Its small size and rugged design make the GP Series Detectors some of the most durable and reliable detectors available.

GP-1001 (0-200 mR/hr)

GENERAL	Intended for general gamma (dose) measurements
Compatibility	ALL WB Johnson Instruments (others on request)
Operating Voltage	525 vdc
Wall Thickness	.035"
Range	0-200 mR/hr
CPM -mr/hr(Cs-137)	1,100
Energy Response	50keV - 2 MeV gamma
Sensitive Area	1.5" x .566"
Finish	Epoxy & PVC coated aluminum housing
Dimensions	1" dia x 4" L
Environmental	-20° F[-28° C]-140° F[60° C] | 5-95% RH
Weight	4oz
Saturation	>500R/hr

GP-1002 (0-2,000 mR/hr)

GENERAL	Intended for general gamma (dose) measurements
Compatibility	ALL WB Johnson Instruments (others on request)
Operating Voltage	535 vdc
Wall Thickness	.035"
Range	0-2000 mR/hr
CPM -mr/hr(Cs-137)	500
Energy Response	50keV - 2 MeV gamma
Sensitive Area	1.1" x .308"
Finish	Epoxy & PVC coated aluminum housing
Dimensions	1" dia x 4" L
Environmental	-20° F[-28° C]-140° F[60° C] | 5-95% RH
Weight	4oz

GP-1003 (0-10,000 mR/hr)

GENERAL	Intended for general gamma (dose) measurements
Compatibility	ALL WB Johnson Instruments (others on request)
Operating Voltage	535 vdc
Wall Thickness	.035"
Range	0-10 R/hr
CPM -mr/hr(Cs-137)	500
Energy Response	50keV - 2 MeV gamma
Sensitive Area	1.1" x .308"
Finish	Epoxy & PVC coated aluminum housing
Dimensions	1" dia x 4" L
Environmental	-20° F[-28° C]-140° F[60° C] | 5-95% RH
Weight	4oz

GP-1004 (0-100 R/hr)

GENERAL	Intended for general gamma (dose) measurements
Compatibility	ALL WB Johnson Instruments (others on request)
Operating Voltage	535 vdc
Wall Thickness	.035"
Range	25 mR/hr -100 R/hr(10R/hr)(without linearization)
CPM -mr/hr(Cs-137)	500
Energy Response	50keV - 2 MeV gamma
Sensitive Area	1.1" x .308"
Finish	Epoxy & PVC coated aluminum housing
Dimensions	1" dia x 4" L
Environmental	-20° F[-28° C]-140° F[60° C] | 5-95% RH
Weight	4oz

GP-1010 Gamma/Beta Hot Dog Probe

GENERAL	Intended for general gamma (dose) measurements
Compatibility	ALL WB Johnson Instruments (others on request)
Operating Voltage	900 vdc
Wall Thickness	40 mg/cm2
Range	200 mR/hr +_energy dependent
CPM -mr/hr(Cs-137)	1200
Energy Response	60keV - 2 MeV gamma
Sensitive Area	1.1" x .308"
Finish	Chrome Plated Brass
Dimensions	1.25" dia x 7" L
Environmental	-20° F[-28° C]-140° F[60° C] | 5-95% RH - IPX4
Weight	8oz

GP-200 End Window GM probe

GENERAL	Intended for general alpha, beta, and gamma (dose) measurements
Compatibility	All WB Johnson Instruments (others on request)
Operating Voltage	900 vdc
Window Thickness	1.6 mg/cm2
Range	200 mR/hr +_ energy dependent
CPM - mR/hr(Cs-137)	2500
Energy Response	60keV- 2 MeV gamma
Sensitive Area	9 cm2
Finish	Black Polyurethane
Dimensions	1.2" dia x 5.5" L
Environmental	-20° F[-28° C]-140° F[60° C] | 5-95% RH non-condensing IPX4
Weight	8 oz

MRSP-1 Plastic Scintillation Detector (0-10 mR/hr)

GENERAL	Intended for general gamma (dose) measurements
Compatibility	All WB Johnson Instruments (others on request)
Operating Voltage	600-900 vdc
Wall Thickness	40 mg/cm2
Range	0-10 mR/hr
CPM -uR/hr (Cs-137)	100
Energy Response	40keV - 2 MeV gamma
Sensitive Area	1-1/2" x 1"
Finish	Black Polyurethane
Dimensions	1-7/8" dia x 6" L
Environmental	-20° F[-28° C]-140° F[60° C] | 5-95% RH IPX4 Housing
Weight	8 oz

MRSP-2 Plastic Scintillation Detector (5,000 uR/Hr)

Compatibility	All WB Johnson Survey Meters
Operating Voltage	875 vdc
Window Thickness	7mg/cm2
Range	5,000 uR/hr +- 10% (Based on Cs-137 calibration)
CPM/uR/hr (Cs-137)	120cpm
Energy Response	35keV-2MeV gamma
Sensitive Area	1" (2.5cm) x 1"
Finish	Black Polyurethane
Dimensions	2 1/2" (4.8cm) x 12" (15cm)
Weight	30 oz
Environmental	-4° F[-20° C]-140° F[60° C] | 5-95% RH Non-condensing

Excellent ALPHA detector with ZERO BACKGROUND in gamma fields up to 1 R/hr. Low density window of 5 mg/cm2 enables the high efficiency detection (40+% 2Pi) of alpha down to 3 MeV. Mounted in shock resistant metal housing.

ASP-2(A) High Efficiency Alpha Detector

GENERAL	Intended for general gamma (dose) measurements
Compatibility	ALL WB Johnson Instruments (others on request)
Operating Voltage	600-900 vdc
Wall Thickness	0.5 mg/cm2
Range	0-500,000 cpm
Detector	Zinc Sulfide - replaceable module
Energy Response	3+ MeV Alpha
Sensitive Area	2" (5 cm)
Finish	Black Polyurethane
Dimensions	2 1/2" dia x 12" L
Environmental	-20° F[-28° C]-140° F[60° C] | 5-95% RH non-condensing - IPX4
Weight	30oz

Standard Product Warranty

At WB Johnson Instruments, we stand behind our products. We guarantee your satisfaction in the quality of our instruments by providing a complete one year warranty covering any defect of workmanship, material, and/or design. If our products do not perform, we will provide complete repair and/or replacement.

Calibration & Repair Services

The proper maintenance & calibration of your instruments is critical to ensure proper performance & accuracy. This is why every WB Johnson instrument is provided with a NIST Traceable Calibration Certificate with ISO 17025 Accredited Certification. This high level calibration provides assurance that the instrument meets the most stringent industry calibration & traceability parameters, thereby giving you comfort in our instrument's accuracy and reliability when it matters most.