

MPC-900-DP

With Guard Option

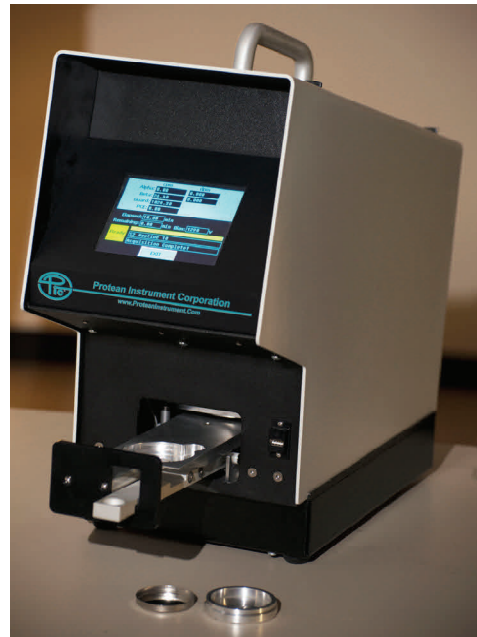


Overview

The MPC-900-DP is a convenient and versatile “benchtop” counter equipped with a dual phosphor scintillator type detector that supports gasless operation and easy portability. Cosmic background radiation reduction is possible with the optional Anti-Coincidence Guard Detector. DUO software compatibility allows for easy system programming, data management, and control chart maintenance. Multiple instruments can be connected for user convenience. This sample counter is ideal for standard Health Physics applications such as smears and air filters.

Features

- ⇒ Manual Single Sample Gross Counter
- ⇒ Dual Phosphor Scintillator Detector
- ⇒ Touch Screen
- ⇒ Light Weight Portability
- ⇒ 5.1 cm (2 in.) Standard Planchet Diameter
- ⇒ Select Laser and Line Printer Compatibility
- ⇒ USB Communication Capability
- ⇒ Radon Compensation for Air Filters
- ⇒ Optional Anti-Coincidence Scintillation Guard Detector



Protean Instrument

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MPC-900-DP

Optimized for Tc-99

Typical Efficiency				
Source	Top	1/8" Bottom	1/4" Bottom	5/16" Bottom
Pu-239	42%	36%	29%	26%
SrY-90	53%	47%	40%	37%
Tc-99	35%	29%	23%	25%

Background				
Condition	Warranted (cpm)		Typical (cpm)	
	Alpha	Beta	Alpha	Beta
With Lead & Guard	<0.1	<20	0.05	18
With Guard No Lead	<0.1	<30	0.05	26
With Lead No Guard	<0.1	<47	0.05	42
No Guard No Lead	<0.1	<55	0.05	50

Instrument Specifications	
Category	Specifications
Sample Size	2 Inch Diameter
Capacity	1
Depth	1/8, 1/4, or 5/16 Inch
Data Export	USB Flash Drive, USB PIC Link
Count Modes	Alpha Only, Alpha/Beta Simultaneous
Power	110-240 Vac, 50-60 Hz Input
Window	Aluminized, 80 µg/cm ²
Operating Temp	10°C to 40°C (50°F to 104°F)

Instrument Specifications	
Dimension	Size
Height	20.25 Inches
Width	9 Inches
Depth	16 Inches
Weight	40 lb
Guard Weight	7 lb
Shield Weight	50 lb

- Efficiency determined using 2 inch NIST traceable distributed source.
- Environmental background reads 8 µR/hr.
- Provided sample carrier size can be altered at time of order.
- All specifications are subject to change without notice.

Optimized for SrY-90

Typical Efficiency	
Source	Top
Pu-239	42%
SrY-90	52%
Tc-99	26%

Background				
Condition	Warranted (cpm)		Typical (cpm)	
	Alpha	Beta	Alpha	Beta
With Lead & Guard	<0.1	<15	0.05	13
With Guard No Lead	<0.1	<22	0.05	18
With Lead No Guard	<0.1	<35	0.05	32
No Guard No Lead	<0.1	<47	0.05	38

Instrument Options	
Option	Order Part Number
1/8 Inch Planchet	700-0007
1/4 Inch Planchet	700-0008
5/16 Inch Planchet	700-0009
Replacement Window	120-0008
2 Inch X 1/8 Inch Sample Carrier	140-0278-1/8
2 Inch X 1/4 Inch Sample Carrier	140-0278-1/4
2 Inch X 5/16 Inch Sample Carrier	140-0278-5/16
Centering Ring	140-0045
Lead Ring	120-0010-DP
Guard Detector Assembly	110-1080
Line Printer 9P ESC/P With USB Port Interface	Line Printer
Laser Printer HP PCL5 With USB Port Interface	Printer
Extended Warranty	108-0001
Service Contract	Service Contract
Installation	Install

Accessories Supplied	
Accessory	Quantity
PIC Link Cable	1
5/16 Inch Sample Carrier	2