



MPC-900-DP

- Manual Single Sample Counter
- 5.1cm (2 in.) Standard Planchet Diameter
- Dual Phosphor Scintillator Detector
- Touch Screen
- Light Weight Portability
- Radon Compensation For Air Filters
- Other MPC-900 Models:

Model MPC-900-GFW
([/products/manual-systems/mpc-900-gfw](#))

Model MPC-900-GFL
([/products/manual-systems/mpc-900-gfl](#))



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. This sample counter is ideal for standard Health Physics applications such as smears and air filters.

Specifications

Specifications are subject to change without notice

TYPE

Sample Changer	Manual
Number of Detectors	1
Counter	Gross
Sample Size	5.1 cm (2 in.) Diameter
Interface	Touch Screen

DETECTOR

Size	5.1 cm (2 in.) Diameter
Type	ZnS+plastic dual phosphor
Window	Aluminized, 80 µg/cm ²
Shielding	(Optional)

SAMPLE

Size	5.1 cm (2 in.) Diameter planchets
Capacity	1
Depth	1/8, 1/4, 5/16 inch
Data Export	USB Flash Drive, RS-232

INTERFACE

Type	Touch Screen
Compatible Software	DUO Software

PERFORMANCE

	TYPICAL	WARRANTED
Alpha Background	0.2 cpm	0.3 cpm
Beta Background	40 cpm	65 cpm
Th ²³⁰ Efficiency	23%	
Sr ⁹⁰ /Y ⁹⁰ Efficiency	45%	
Tc ⁹⁹ Efficiency	30%	
Alpha-Beta Crosstalk	< 0.1%	
Beta-Alpha Crosstalk	< 0.1%	
Count Modes	Alpha Only, Beta Only, Alpha/Beta Simultaneously	

PHYSICAL

Size	45.7 x 22.9 x 40.6 cm (18 x 9 x 16 in.) (H x W x D)
Weight	18.1 kg (40 lb) Installed

Compatible Protean Application Software Packages

- DUO Software

Options

- Lead ring shielding, 22.7 kg (50 lb), Order part number MPC-900-SHLD
- Remote PC Interface (without touch screen) Order Model MPC-900-PC-GFW-2

Downloads

- Manual (/images/Manuals/MPC900DP%20Manual.pdf)

Instruments

[ASC-950-DP \(/asc-950-dp\)](#)

[WPC-1050 \(/wpc-1050\)](#)

[IPC-650 \(/ipc-650\)](#)

[IPC-650-Series \(/ipc-650-series\)](#)

[WPC-1150-Series \(/wpc-1150-series\)](#)

[MPC-900-Series \(/mpc-900-series\)](#)

[MPC-1000-Series \(/mpc-1000-series\)](#)

[MDS Series \(/mds-series\)](#)

[SB-800 \(/sb-800\)](#)

[Instrument Comparison Chart \(/instrument-comparison-chart\)](#)

System Types

[Gasless Systems \(/gasless-systems\)](#)

[Low Background Systems \(/low-background-systems\)](#)

[Ultra-Low Background Systems \(/ultra-low-background-systems\)](#)

[Windowless Detector Systems \(/windowless-detector-systems\)](#)

[Gross Counting Systems \(/gross-counting-systems\)](#)

[Automatic Systems \(/automatic-systems\)](#)

[Manual Systems \(/manual-systems\)](#)

[Multi-Detector Systems \(/multi-detector-systems\)](#)

Applications

[Health Physics \(/health-physics\)](#)

[Smear Counting \(/smear-counting\)](#)

[Radio-Chemistry \(/radio-chemistry\)](#)

[Commercial Labs \(/commercial-labs\)](#)

[Power, Fuel, D&D \(/power-fuel-dad\)](#)



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