

Model 3030P Alpha-Beta Sample Counter



Ludlum Measurements, Inc.

FEATURES

- Simultaneous Alpha and Beta Counting
- Employs PIPS™ Detector
- Ultra Low A/B Crossover & Backgrounds
- Adjustable Alpha Window for Radon Rejection
- Data Logging with USB Connectivity
- 48 Hour Battery Operation



Part No. 48-3509

INTRODUCTION

The 3030P's solid state PIPS™ detector facilitates efficient and cost-effective simultaneous alpha and beta sample counting for air filters, smears and swipes. This instrument meets the newer EPRI guideline for detecting a few DPM of alpha amidst a several hundred thousand DPM beta background. All data are automatically logged and easily retrievable via a USB connection. The light weight and battery operability afford convenient use out in the field. With the optional detector shield, the Model 3030P can be used virtually anywhere.

SPECIFICATIONS

EFFICIENCY:

	Optimized Settings for:		
	Alpha & Beta	Alpha	Beta
Alpha Efficiency Pu-239 (4 pi)	39.5%	40.3%	31.1%
Beta Efficiency SrY-90 (4 pi)	30.9%	20%	36.1%
Cl-36 (4 pi)	29.7%	20.4%	35.8%
Tc-99 (4 pi)	7%	1.2%	13.1%
C-14 (4 pi)	.006%	0%	0.36%
Alpha Background (10 min)	0 cpm	0.2 cpm	0 cpm
Beta Background (10 min)	21.0 cpm	10.2 cpm	60.1 cpm
Alpha to Beta Crosstalk	2.8%	1.1%	8.4%
Beta to Alpha Crosstalk	.001%	0%	0%

SCALERS: Alpha and Beta over a range of 0 - 999,999 counts, 6 digit backlit LCD displays for each

COUNT TIMER: Single timer, switch adjustable between 0.1 - 60 minutes (.1, .5, 1, 2, 5, 10, 60, PC)

STATUS INDICATORS: Backlit indicators for:

- **QC** - Daily QC check needed
- **LOW BATT** - Battery power is low
- **CPM/DPM** - Counting in CPM or DPM mode
- **αAL/βAL** - Count has exceeded alarm setpoint

INTERFACE: USB - includes a 39 inch (1 meter) USB cable for connection to a PC

SOFTWARE: Free PC interface software allows parameter setup and data logging

AUDIO: Built in unimorph type speaker with volume control to provide a dual tone click-per-event audio

POWER: 5 Vdc universal-input wall AC-DC adapter or 4 ea. "D" cells

BATTERY LIFE: 48 hours

TEMPERATURE RANGE: -4°F to 122°F (-20°C to 50°C)

SIZE: 8" X 7" X 9.5" (20.3 X 17.8 X 24.1 cm)

WEIGHT: 7.5 lbs (3.4 kg) with 4 each "D" cell batteries

CONSTRUCTION: Aluminum housing with gray powder-coated finish and subsurface printed front panel

OPTIONS

Model 3030P Shielding Kit (Part No. 4337-291) - This 10 pound internal shielding (field retrofittable) kit reduces the beta background by approximately 20% in a normal 10 µR/hr background field.

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