



**Standard Drawer System  
No Shielding**



**Drawer System With  
2" Shielding**

# Alpha Beta Sample Counting System

**Model: STG-ABS-42S and  
STG-ABS-42P**

## Features

- **STG-42P:**
  - Portable** (Not Shown)
  - Lightweight, Hand Carry
  - Table-top** (Pictured)
  - Standard 2" Drawer System, Lightweight – No Shielding
- STG-42S:**
  - 2" Lead Shielded Drawer System (Pictured)
- STG-42S and STG-42P:**
  - Combines Alpha and Beta Dual Scintillation Detectors
  - Drawer System for Sample Positioning.
  - Windowless Operation with Light-tight Housing
  - Automatic HV Cutoff When Drawer is Opened
  - Designed for Easy Cleaning
  - Planchet Pack of 50 Sheets
  - **IP 52**
- Electronics – PRS-2F**
  - 5 Decade Range Eliminates Need For Automatic Range Changer
  - Dual Alarms: Alpha and Beta, Individually Settable
  - Battery Operated – **Optional** Rechargeable Batteries
  - User Settable Count Time
  - Units User Settable: Cps, Cpm (Bq Based On Calibration Constant)
  - RS-232 Port; **IP 64**

## Description

The **STG-ABS-42 Series** Alpha Beta Scintillation System combines Alpha and Beta Dual Scintillation Detector plus drawer system for sample positioning. In this detection system, the protective window and grill are deleted to enhance sensitivity to Alpha and low energy Beta radiation.

**Sensitivity:** of the **STG-ABS-42** to 5 MeV Alphas is typically 80%-85% of 2 Pi.

**Background:** can be less than one count per minute.

**Sample Diameter:** 2"

**Sample Cavity Depth:** (2) options: (1) 0.4". (1) 3/16" user specified.

**Alpha / Beta Dual Scintillation Detector:** 4" diameter. The 90 cm<sup>2</sup> face of the probe allows shorter count times plus high sensitivity.

## Application

**STG-ABS-42 Series** is especially well suited to counting Alpha and Beta emissions from air sampler filters.



## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303  
PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@USNUCLEARCORP.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

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