

SAMPLE COUNTING SYSTEM

Model # STG-AS44

APPLICATION: Model **STG-AS44** is especially well suited to counting Alpha emission from air sampler filters.

The **STG-AS44** Alpha Scintillation System combines an Alpha Scintillation Detector plus TM-4 drawer system for sample containment. In this detection system, the protective window and grill are deleted to enhance sensitivity to Alpha radiation.

Stainless steel drawer and base plate for stability and easy cleaning.

The sensitivity of the STG-AS44 to 5MeV Alphas is typically 80-85% of 2π . It is completely insensitive to betas and gammas. Background is typically less than one count per minute. Sample cavity is 4 1/16" diameter x 3/16" deep. Allows 4" sample diameter x 3/16" thick sample size.

Windowless operation, with light-tight housing and automatic HV. Cutoff when drawer is opened.



Figure 1: STG-AS44

SPECIFICATIONS:

Photomultiplier Tube:	5" dia. 10-stage.
Scintillator:	ZnS(Ag).
Plateau:	200 Volt long.
Slope:	Less than 5% per 100V.
Efficiency:	Greater than 75% of 2π .
Dimensions:	7" W x 14" D x 16" H.
Weight:	16 lbs.
Shipping Weight:	28 lbs.

Alpha Scintillation detector 4" diameter. The 90cm² face of this probe allows shorter count times plus high sensitivity. Background is in the order of several counts per hour.

TA **TECHNICAL ASSOCIATES**
7051 ETON AVENUE * CANOGA PARK, CA 91303 TELEPHONE (818) 883-7043 * FAX(818) 883-6103

\$Revision: 1.2 \$