

SAMPLE COUNTING SYSTEM

For WIPES, FILTERS, PLANCHETS

MODELS:

- MODEL # **STAM-2**
ALPHA SCINTILLATION SYSTEM
- MODEL # **STG-4**
BETA-GAMMA SCINTILLATION SYSTEM
- MODEL # **STG-4T & STG-4TP**
LOW ENERGY GAMMA SCINTILLATION SYSTEM
- MODEL # **STB-3**
BETA-GAMMA GM SYSTEM

The **STAM-2** Alpha Scintillation system combines a modified PAS-8 Alpha Scintillation Probe plus TM-2 Detector stand and drawer system for sample containment. In this detection system, the protective ring and grill normally included in the PAS-8 when same is used as a free probe, is deleted to enhance sensitivity to alpha radiation. The **STB-3** Beta-Gamma GM System substitutes a modified P-11 Pancake probe for the alpha scintillation detector. It also deletes the protective aluminum grill normally included in the probe to increase sensitivity to low energy Betas.

The sensitivity of the **STAM-2** to 5 MeV Alphas is typically 80-85% of 2 pi. It is completely insensitive to Betas and Gammas. Background is typically less than one count per minute. The sensitivity of the **STB-3** to Betas of energy 60 KeV and up ranges from 30% to 100% of 2 pi depending on energy of beta and backing material. Background is typically 30-50 counts/minute. Sample cavity is 2-1/16" diameter x 3/8" deep.



Figure 1: STAM-2



Figure 2: STB-3

Model:	STAM-2	STB-3	STG-4	STG-4TP
Dimensions:	3-1/2" x 4-1/2" x 4"	3-1/2" x 4-1/2" x 4"	3-1/2" x 4-1/2" x 10"	3-1/2" x 4-1/2" x 13"
Shielding:	none	1" lead	1" lead	1" lead
Weight:	3-1/2 lbs	7-1/2 lbs	7-1/2 lbs	7-1/2 lbs
Shipping Weight:	8 lbs	12 lbs	12 lbs	12 lbs

The **STAM-2** and **STB-3** are compatible with Technical Associates Model FS-8 series Scalers and Ratemeters of the FM-5 series or any other high-quality scaler or ratemeter furnishing well-regulated high voltage +700 to 1200 V and accepting 100 mV negative going pulses from a 200 meg source. Termination is MHV (**Optional** BNC).

STG-4 combines PGS-3; 1" x 1" NaI probe with TM-2.

STG-4T combines PGS-3I; 37mm x 2mm NaI probe with TM-2 and 1" lead shielding.

STG-4TP combines PGS-3IP; 37mm x 2mm NaI probe with TM-2 and preamp and 1" lead shielding.

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