

5 INSTRUMENT OPERATION

The instrument does not require warm up time and is ready for operation after connecting the power supply and the power switch is turned "ON".

- 5.1 With the portable scaler connected to the 12V Battery Power Supply, turn the power switch of the scaler to ON position. A hissing sound from DC-DC converter section will be heard, indicating that the high voltage is present at the H.V.1 and H.V.2 connector, 12V power and 5V regulated power is supplied to electronic circuits and is also available at H.V.2 connector.
- 5.2 Connect the detector with operating high voltage corresponding to that in the scaler to H.V.1 or H.V.2 (depending on the type of detector to be used). Expose the detector to the source.
- 5.3 Turn the START-STOP switch to STOP position.
- 5.4 Depress TIMER RESET and scaler RESET.
- 5.5 Turn the UP-DOWN switch to UP position.
- 5.6 Select preset counting time of 1 minute by using thumbwheel switch and X 0.1 - X 1 time toggle switch.
- 5.7 Turn the GAIN X 20 switch to 1.
- 5.8 Turn the START-STOP switch to START position and turn the GAIN X 20 switch to the next higher position until the scaler begins to count. The scaler will count for 1 minute and stops counting automatically. Observe the total counts on the scaler.
- 5.9 Repeat steps 5.3 and 5.4. Turn the GAIN X 20 switch to the next higher position and turn the START-STOP switch to START position.

The scaler will count for 1 minute and stops counting automatically. Repeat this step until appreciably constant total counts are obtained.

- 5.10 With the GAIN X 20 switch at the position obtained in step 5.9 proceed to use the instrument.
- 5.11 When the background must be subtracted from total counts after the total counts is obtained, turn the START-STOP switch to STOP position. Depress TIMER RESET and turn the UP-DOWN switch to DOWN position. Turn the START-STOP switch again to START position. The background will be subtracted from the total foregoing counts with the same preset time.