

OPERATING INSTRUCTIONS

Electronic Module System Geiger Tube No. 32394

1. Introduction

This Geiger Tube can be powered by the 32385 Geiger Tube Supply or the combination of the 32382 Six-Decade Counter Timer and the 32386 12VAC/DC Amplifier Power Supply.

2. Description

The tube is an end-window type, with two connectors: one 4mm banana type (-) and one pin type (+).

3. Setup

For most counting experiments, the tube is used with the six-decade counter/timer and 12VAC/DC amplifier power supply combination. The tube is powered in this arrangement by connecting the small pin lead to the mating 450V connector in the top right corner of the six-decade counter/timer. The other lead of the tube is connected to the red "+" input jack on the 12VAC/DC amplifier power supply. Counts will then be registered on the six-decade counter/timer.

If the Geiger tube is used with the Geiger tube supply, the adjustable voltage will be indicated in 100-volt increments to 1 kilovolt on an analog dial. If this setup is desired, make the negative connection from the Geiger tube to the 4mm plug on the 32385 Geiger Tube Supply, and the pin lead connection to the pin connection on the Geiger tube supply. A red indicator light will indicate when power is available at the Geiger tube supply output.

4. Operation

Caution: Care should be taken when using the Geiger tube to prevent damage to the fragile mica end window. The end window is recessed within the aluminum sleeve to prevent inadvertent damage. The end window should not be touched nor should any foreign body be placed within the tube.

For detailed information on the use of the Geiger tube in various experiments, refer to the 30195-02 Student Lab Manual for the Cenco Electronic Module System.

5. Maintenance

Other than adhering to the above caution, the Geiger Tube needs no special maintenance. If you should experience any difficulty with a Geiger Tube, please contact Central Scientific Company, giving details of the problem. To ensure better service, please do not return any apparatus to Central Scientific Company until we have sent you authorization.

Written 8/89

