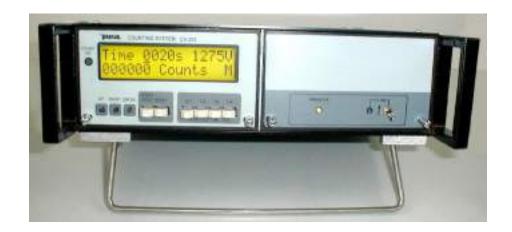
# **COUNTING SYSTEM**



### **SALIENT FEATURES**

# LARGE LCD DISPLAY

• DESIGNED FOR GROSS COUNTING OF ALPHA or BETA/GAMMA • 1 TO 9999 SEC TIME SETTING • DIGITAL DISPLAY FOR COUNTS & TIME • READ HV • COMPACT SIZE • IDEAL FOR LABORATORY USE AS WELL AS FOR TRAINING IN INSTITUTIONS



#### INTRODUCTION

Counting system type - CS101L is designed to measure gross counting of alpha or beta/gamma contamination collected on filter paper.

The large LCD display of this instrument measures approx. 10mm height of each character, making a clear readability. This instrument has very simple user interface.

ZnS scintillation based alpha probe type - PSP 647D1 is to be used with this for measuring alpha activity on sample paper. This instrument is designed with CMOS circuitry and is compact in size.

This instrument can also be used as a Geiger counting system with GM probe GP-40 or GP-30.

#### **TECHNICAL SPECIFICATIONS**

#### **DETECTOR**

Input Sensitivity : -50mV

**Built-in Load Resistor** : 390KΩ for  $\alpha$  - probe & 3.3MΩ for GM probe

#### **SCALER**

Measuring Range : 999999 Counts

Display : 6 Digit on Dot-Matrix LCD (16 x 2)

with approx. 10mm character height.

Paralysis time selection : 250µsec or 350µsec or 550µsec

(Useful for GM counting) or OFF (4 to 6µsec)

Pulse height discriminator : Selectable by internal preset 200mV to 5V

### **PRESET TIMER**

Range : 1sec to 9999secs

**Display**: 4 Digit display for elapsed time on Dot-Matrix LCD (16 x 2)

with approx. 10mm character height.

**Start, Stop & Reset**: Provided to control the timer circuit

**EHT VOLTAGE** 

Range : 20V to 1250V, adjustable with front access multi-turn preset

Maximum Load Current : 500μA

**Load Regulation** : 0.5% of set voltage **Readout** : on 16 x 2 LCD

**POWER SUPPLY** : 230V AC  $\pm$  10% 50Hz

**CONSTRUCTION**: Desktop

**DIMENSIONS**: 300mm x 310mm x 80mm approx.

**ESSENTIAL ACCESSORIES (at an extra cost)** 

**DETECTOR: PSP647D1**: As per Cat.No.PSP-647D1/0805

An alpha probe having drawer type arrangement for 1"  $\phi$  or 2" $\phi$  sample filter paper measurement

**Mylar Mounting:** On S.S. frame for easy replacement (**PM Tube Specs: Shock:** 30g, 11ms, 3 shocks/axis

Vibration: 10 - 32Hz/10mm, 32 - 2000Hz/20g

Dark current: 1.5nA at nominal sensitivity)

GP30 : GM probe GP30 having end-window GM tube

(areal density: 1.5-2.0mg/cm<sup>2</sup>, eff. dia. ≈0.781, eff. length≈1.46")

or equivalent with bakelite stand & UHF connector

GP40 : GM probe GP40 having end-window GM tube

(areal density: 1.5-2.0mg/cm<sup>2</sup>, eff. dia. ≈1.15, eff. length≈1.45")

or equivalent with bakelite stand & UHF connector

P1705 : Lead Castle P1705 for GP30 or GP40 GM probe

CAT.NO. CS101L /0906

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