

COUNTING SYSTEM

pea
CS101L

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 : 390K Ω for α - probe & 3.3M Ω 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 : 250 μ sec or 350 μ sec or 550 μ sec
(Useful for GM counting) or OFF (4 to 6 μ sec)
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 : 500 μ A
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" ϕ or 2" ϕ 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/cm², eff. dia. \approx 0.781, eff. length \approx 1.46") or equivalent with bakelite stand & UHF connector
- GP40** : GM probe GP40 having end-window GM tube (areal density : 1.5-2.0mg/cm², eff. dia. \approx 1.15, eff. length \approx 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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