ALPHA CONTAMINATION MONITOR



- SINGLE KEY PRESS TO CHANGE COUNT RATE MODE INTO PRESET TIME
- EASY OPERATION SPECIALLY DESIGNED FOR LOW COUNT RATES CPS CPM
- COUNTS bq/cm² DATA STORAGE SERIAL PORT BACKLIT LCD COUNT RATE ALARM BATTERY



(ALS-938 with PSP649/100)



(ALS-938 with PSP649/25)

INTRODUCTION

This Instrument is especially designed for low count rates of Alpha contamination. While frisking, count rate (CPS) mode is to be used and if audio chirp is heard, preset time mode can be selected by single key press. At the end of preset time, result in bq/cm² toggles with counts reading. Then by a Single key press of CPS mode again.

TECHNICAL SPECIFICATIONS

DETECTOR

RADIATION DETECTED : α (Alpha)

DETECTOR : Built-in ZnS Scintillator covered with aluminized mylar

SCINTILLATION WINDOW: PSP649/100: 11cm dia OR

PSP649/25 : 5cm dia

PM TUBE : 2" PM tube (10 dynodes, Gain : 06. x10⁶ Dark Curr:0.3nA typical) (Shock:30g/11ms/3 shocks per axis, Sinusoidal

Vibration:10-32Hz:10mm, 32-2000Hz:20g, 2 octaves/min)

EFFICIENCY : Better than 25% **BACKGROUND** : < 15 Counts/hr.

COUNT RATE MODE

Units : CPS (1 cps resolution), CPS (0.1 cps resolution)

CPM (1 cpm resolution)

Audio Chirp : per detected pulse Range : 0 to 9999 CPS/CPM

Alarm : Audiovisual alarm settable in steps of 0.1 cps

PRESET TIME MODE

Time : 0 to 99999 seconds (SETTABLE)

Range : 0 to 9999 counts

Result in bq/cm² : Automatic toggling with accumulated counts at the end of preset time (from

0.01 bg/cm² to 99.9 bg/cm²)

Mode change over : By single key press (Press 'START' button to enter in preset

time mode & press 'BACK' button to go back to count rate mode). While frisking, count rate mode is to be used and if audio chirp is heard, preset time mode can be selected by

single key press.

CONTROLS & INDICATIONS

Power ON Switch : Rocker Switch

Light ON Push Button : To light-up backlit LCD for 10s (to conserve power)

: 16 x 2 Alpha Numeric Dot Matrix LCD with back light

: LED indication when counting is in progress

: 'LOW BATT' on LCD, with early warning

: 'OFL' (overflow) on LCD, when count exceeds

9999cps/cpm/counts & 99.9 bg/cm²)

OTHERS

Data Storage : 1000 records

HV : 500V - 1000V DC (factory set to suit detector)

Mylar Mounting : on S.S. frame for easy replacement

POWER : Battery operated

CAT.NO. ALS938/1217

Display

Count ON

Low Batt.

Over Range

PLA ELECTRO APPLIANCES PVT. LTD.

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