

ALSCIN MONITOR WITH DRAWER ASSEMBLY

ALS939D

SALIENT FEATURES

• MICRO CONTROLLER BASED • WITH DRAWER ASSEMBLY • HAND HELD, LIGHT WEIGHT & PORTABLE • DIGITAL LCD READOUT • VERY LOW BACKGROUND • WELL PROVEN LONG LIFE PM TUBE • DATA STORAGE • RS232 PORT • RECHARGEABLE BATTERIES WITH BATTERY CHARGER AUTOMATIC CONVERSION TO bg/cm², CPS, CPM



INTRODUCTION

Alscin Monitor type ALS 939D is portable, rechargeable battery operated, Microcontroller based instrument with drawer arrangement to hold filter paper. It is a very useful & convenient instrument for measuring contamination of alpha particles on collected samples on filter paper with 8 x 2 Alpha Numeric dot matrix LCD display with back light & preset timer, low-level alpha contamination can be measured. Data storage facility for counts with time & serial number is also available.

Scintillation detector uses ZnS evenly coated layer on Mylar sheet, which is covered by aluminised Mylar to prevent external light & thereby get better efficiency.

PM tube used, is a well proven long life PM tube for more than 20 years. It is rugged & has low dark current. Also, it is well specified for shock & vibrations, which is extremely important when used in portable instruments.

TECHNICAL SPECIFICATIONS DETECTOR

Radiation Detected

: α (Alpha)

Detector

: Built-in ZnS Scintillator covered with aluminised mylar

with 2" PM Tube (10 dynodes, Gain:0.6x10⁶, Dark Curr:0.3nA typical)

(Shock:30g/11ms/3 shocks per axis, Sinusoidal Vibration:

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

Scintillation Window: Circular window of 5 cm diameter, With opening area >80% &

Drawer arrangement for filter paper

Efficiency : Better than 25% Background : < 7 Counts/hr

SCALER

Units : Counts (CPM, CPS, bq/Sqcm conversion by pressing UP button)

after the end of preset time

Range : 0 – 999999 Counts and 0.01 to 99.9 bg/Sqcm

Audio Chirp : A chirp sound per detected pulse (chirp mute if required)

Efficiency : Settable by keypad (For bg/Sgcm calculation)

TIMER

Auto Mode : Starts with START switch & auto stops after preset time

Manual Mode : START / STOP by button Reset Button : To reset Scaler & Timer

Elapsed time : AUTO mode 1 to 9999s or 1 to 9999M(minutes)

CONTROLS & INDICATIONS

Power ON Switch : Rocker Switch

Display Lamp Modes : ON or OFF or power saving auto (10 sec)Other Push Buttons : START/STOP, RESET, SHIFT, UP & ENTER

Display: 8 x 2 Alpha Numeric Dot Matrix LCD with back light

Count ON : LED indication when

Over Range : 'OFL' (overflow) on LCD, when count exceeds 999999

OTHERS

Data Storage: Automatic storage of readings at the end of elapsed time.

Max. readings storage capacity: 1000. Provision to delete stored

readings. Data dump to PC through RS232 port.

Facilities : Data Dump, Erase and Recall

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

DRAWER : Drawer arrangement for 1"φ & 2"φ sample paper counting

MYLAR MOUNTING: On S.S. frame

POWER : 230 vac mains or rechargeable batteries.

Batteries can be charged without removing from instrument

Accessories: Battery charger

Carrying case optional: with shoulder strap, Suitable for the protection of Alscin Monitor

Which has fragile parts (PM Tube, Mylar etc)

Note : Optional item at an extra cost

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