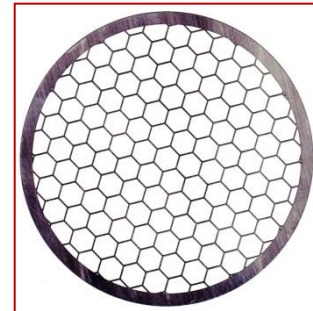


ALSCIN WALL MONITOR ALS939

SALIENT FEATURES

- SPECIAL THIN HONEY-COMB PATTERN S.S. MESH FOR BETTER EFFICIENCY AND LARGE OPEN AREA
- MICRO CONTROLLER BASED
- HIGHLY FACILITATED
- HAND HELD, LIGHT WEIGHT & PORTABLE
- DIGITAL LCD READOUT
- AUTOMATIC CONVERSION TO bq/cm^2 , CPS, CPM
- EASY REPLACEMENT OF ALUMINISED MYLAR
- VERY LOW BACKGROUND
- WELL PROVEN LONG LIFE PM TUBE
- DATA STORAGE & DUMP VIA RS232 PORT
- ONLINE CHARGING.



INTRODUCTION

Alscin Monitor type ALS 939 is hand held, micro controller based, operated, and portable instrument. It is a very useful & convenient instrument for measuring contamination of alpha particles on the surface of walls, floors, tables etc. with 8 x 2 LCD display, low-level alpha contamination can be measured in terms of counts/CPM/CPS/ bq/sqcm .

Scintillation detector uses ZnS evenly coated layer on Mylar sheet, which is covered by aluminised Mylar to prevent external light & thereby get better efficiency. Also, mylar replacement is now made very easy in these instruments & mylar strength is also improved. S.S. mesh used for mylar protection is specially made, honey-comb shaped to achieve better efficiency & open-to-close ratio.

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 Coupled to suitable PM Tube
Scintillation Window	: Circular window of approx. 100 cm^2 area
Efficiency	: Better than 25%
Background	: < 25 Counts/hr.

CAT.NO. ALS939 /1222

PLA ELECTRO APPLIANCES PVT. LTD.

PLA HOUSE, KURLA - KIROL ROAD, VIDYAVIHAR (WEST), MUMBAI - 400 086 **Tel:** 2511 6864 / 6865 **FAX:** 91-22 - 2516 8948 **WEB:** www.plaelectro.com **E-Mail:** Enquiry – marketing@plaelectro.com
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ALSCIN WALL MONITOR ALS939



SCALER

Units	: Counts CPM, CPS, bq/sqcm 9999CPS 99999CPM
Unit Selection	: By pressing single Key (mode key)
Range	: 0 – 999999 Counts and 0.01 to 99.9 bq/sqcm
Audio Chirp	: A chirp sound per detected pulse (chirp mute if required)
Efficiency	: To be entered manually (For bq/Sqcm 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)
Response Time (TC)	: 1 sec to 10 sec.

CONTROLS & INDICATIONS

Power ON Switch	: Rocker Switch
Display Lamp Modes	: ON or OFF or Auto (10 sec)
Other Push Buttons	: START/STOP, RESET, SHIFT/CHIRP, UP/LIGHT ENTER/MODE (5 Key)
Display	: 8 x 2 Alpha Numeric Dot Matrix LCD with back light
Count ON	: LED indication when counting is in progress
Low Batt.	: 'LOW BATT' on LCD
Over Range	: 'OFL' (overflow) on LCD, when count exceeds 999999

OTHERS

Mylar Protection mesh	: Specially designed thin honey-comb pattern S.S. mesh for better efficiency & better open-to-close ratio.
Mylar Mounting	: on S.S. frame for easy replacement
Mylar Replacement	: Screw less (No screws to be removed for replacement of mylar)
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)
Power	: (online charging) Rechargeable battery with battery chargers /mains operation Note : No need to remove batteries for charging. Charging can be done while using.
Charging time	: less than 3 hours
After charging	: Usage time 10hrs.
Weight	: Less than 1.9 kg
Calibration Certificate	: Calibration using BARC Traceable surface area alpha source for bq/cm ²

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