

# Model ALCAM – Wall Mountable Continuous Air Monitor (Alpha Monitoring System)

(Preliminary Information)



**Wall Mountable Alpha in Air Monitor**

Model ALCAM is a Continuous Air Monitoring system developed for alpha counting in air. ALCAM is designed and manufactured indigenously by Para Electronics Mfg. Division of Electronic Enterprises (I) Pvt Ltd for Continuous Monitoring of Alpha activity in the surrounding atmosphere.

Electronic flow measurement enables user to get the activity reading in Bq/M<sup>3</sup>, Time totalized air flow measurement provides information on the amount of air sampled in the given time. However, CAM system is also available with standard Rotameter type air flow measurement providing only CPM Display.

Model ALCAM provides inlet connection for connecting the air suction vacuum line. However, air sampling pump unit also can be supplied as an optional accessory. It is expected that the flow range should be between 40 to 70 LPM. Rotary vanes based dry pump with open air suction capacity up to 125 LPM is supplied for 24 hours nonstop operation as an optional accessory.

Connectivity of ALCAM to network or PC is provided through RS-485 / Ethernet. Modbus based Data Transfer software is supplied as an option. MODBUS protocol based registers' output is made available for data transfer.



**2" Dia ZnS(Ag) detector with sampler**



**Output Panel**



**Flow Measurement Unit**

Wall mountable Continuous Air Monitoring System model ALCAM is supplied in rack. This rack (depth 23 cms) contains the 2" dia ZnS(Ag) Alpha detector on 2" dia PMT, Filter holder assembly, air flow measuring unit and electronic unit for display of Alpha activity.

# Specifications (ALCAM System)

(PRELIMINARY INFORMATION)



Parameter	ALCAM
No. of Channel	Alpha
Detector	2" dia ZnS(Ag) Scintillator on 2" dia PMT
Filter Paper Arrangement	2" dia filter paper mounting, with easy-to-replace filter holder in sampling system for Alpha Channel
Flow Measurement	Electronic or by Rotameter (0 to 100 LPM Range)
Air Sampling	Continuous rated air sampling pump (100 LPM) for Alpha channel
HV supply	0 to 1000V preset for alpha channel
Display	6 digit LED for CPM 4 x 20 Char large LCD for Bq/M3, Flow, Alarm Levels
Ranges	50, 500, 5000 or 50000 CPM settable
Calibration	Air Flow and Counting Efficiency
Alarms	Green / Red Cluster LEDs with audio alarm
Alarm Setting	Warning and High CPM Alarm Low and High for Air Flow
Outputs	Potential free Relay contacts, 4-20mA Output RS-485(Modbus) or Ethernet
Air Flow Pump (optional)	Independent pump 126 LPM open flow with silencer
Flow Control	By Vent Valve with inlet air filter
Mechanical Enclosure	Powder coated Wall Mounting Rack ( 60 cm L x 23 cm W x 47 cm )
Power	230V / 50 Hz AC Mains

*Due to continuous R&D, specifications are likely to change without notice*

**Manufactured By :**

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