

MOVING FILTER ALPHA PLUS BETA-GAMMA AIR MONITOR SYSTEM

Model # SAAM-IHVM

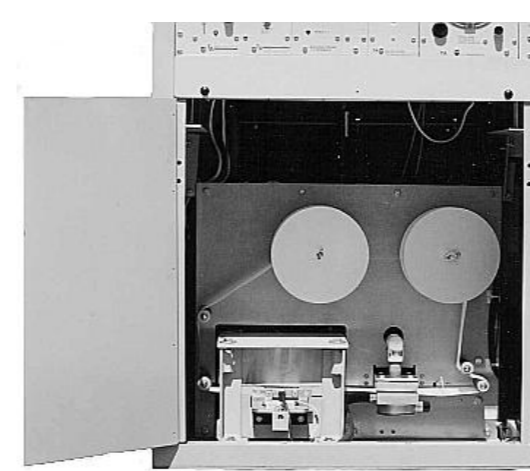
FEATURES:

- AIRBORNE ALPHA and BETA-GAMMA PARTICULATES
- COUNTS SEPARATELY AND SIMULTANEOUSLY
- RUGGED, 100% DUTY CYCLE
- SETTABLE ALARM
- HIGH THROUGHPUT
- OPERATES 2-6 WEEKS UNATTENDED
- PRINTED RECORD
- BCD AND SERIAL PULSE OUTPUT
- 3" LEAD SHIELDING
- 2 CHANNEL AIR MONITOR:
- CHANNEL 1: ALPHA LESS RADON
- CHANNEL 2: BETA-GAMMA PARTICULATE

DESCRIPTION: The SAAM-IHVM series are two channel air monitors for simultaneous measuring of gross Alpha, and Beta-Gamma particulates. Like all of the SAAM series, these are continuous duty, high capacity, rugged skid or caster-mounted systems. Electronics are microprocessor with color LCD display. Also preamps etc. are plug-in modules allowing change or addition of function as needed and allowing rapid repair by substitution of modules in the field. The modular system is covered by T/A's unique exchange warranty, in addition to the full one year warranty covering all T/A products.



SAAM-IHVM



Filter Paper

Shields are void free lead with stainless steel parts for a long, useful life and easy decontamination. Filters are easily changed via quick disconnect, supply and take up spools. Shield can be opened for filter change or cleaning with minimum effort. All shield connections and openings are sealed against air leaks. The air moving system is based on a high capacity air pump capable of delivering 5 cfm with **Options** up to 30 cfm free air and including fine regulation in the 3 cfm to 5 cfm operating range. The entire system is mounted in a self-contained rugged cabinet and comes complete with all cabling and connectors in place ready to operate. The standard unit is operated from 115 V single phase, 60 Hz; **Optional** 220 V, 50 or 60 Hz.

TA TECHNICAL ASSOCIATES

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SPECIFICATIONS:

Channels:	1	2
Physical Form:	Particulates	Particulates
Activity Detected	Alpha	Beta-Gamma
Detector Type:	Solid State	Thin Window GM
Size:	1" diameter	2" diameter
Model:	SS-A1	T-1190
Filter Media:	Moving Filter	Moving Filter
Size:	75mm x 100meters	75mm x 100 meters
Construction:	Standard or Glass Fiber	Standard or Glass Fiber
Standard Shielding:	1/2" Steel	3" (Pb) Lead
Optional Shielding:		1" (Pb) Lead
Sensitivity:	2 x 10 ⁻¹³ μCi/ml	2 x 10 ⁻¹³ μCi/ml

- **Display Mode:** Model SAAM-IHVM features micro-processor control and color LCD monitor.
- **Operation:** When SAAM-IHVM continuous air monitor is in normal operation, the color LCD monitor displays:

CHANNEL NAME STATUS	REAL TIME AIRBORNE CONCENTRATION μCi/m ³ (NOTE 1)	ACCUMULATED DOSE FOR THIS SHIFT μCi-Hrs/m ³ (NOTE 1)	CONCENTRATION ALARM STATUS	ACCUMULATED DOSE ALARM DOSE
PARTICULATE ALPHA	--	--	--	--
PARTICULATE BETA-GAMMA	--	--	--	--
Other alarms:	status			

Low Air Flow ___ Loss of Signal Particulate Alpha ___
 Loss of Signal Particulate Beta-Gamma ___

- MENU OPTIONS:**
- | | |
|------------------------|-------------------|
| 1. Modify shift length | 2. Change filter |
| 3. Configure energies | 4. Set alarms |
| 5. Start shift | 6. Save to floppy |

NOTE 1 - User can easily change engineering units at will.

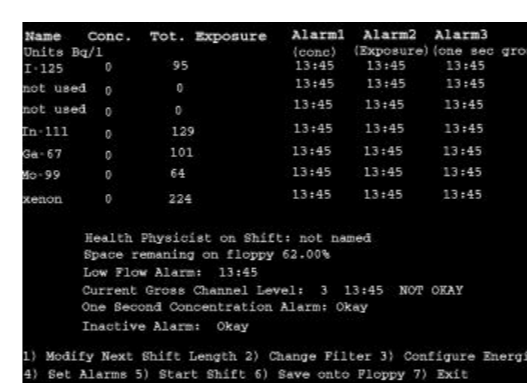
Clear audio and visual alarms are provided.

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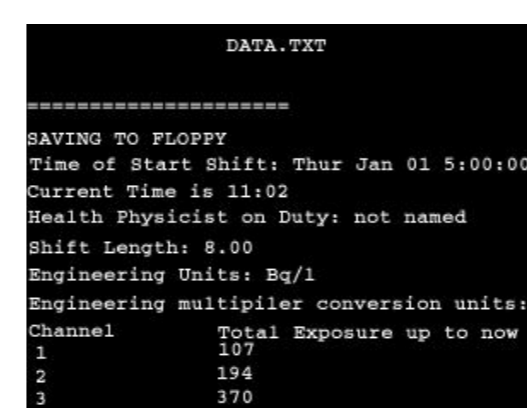
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MAIN DISPLAY SCREEN

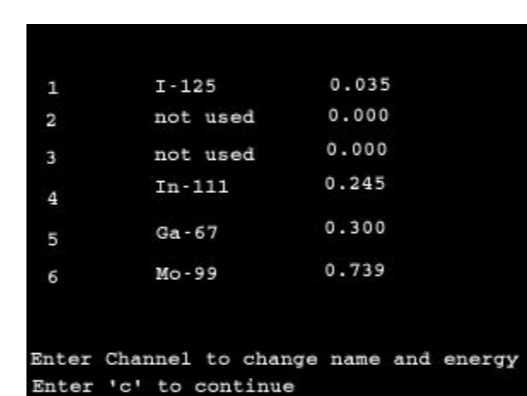


DATA.TXT DISPLAY SCREEN SHOWS DATA SAVED TO FLOPPY

Model shown in photo is 7-channel version

DATA REVIEW MODE: (DATA.TXT)

Model SAAM-IHVM continuous air monitor automatically saves all data and set-up parameters to 3.5" floppy diskette every hour. This data can be reviewed on the color LCD display.



TEST.EXE DISPLAY SCREEN FOR SETTING ENERGIES

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SPECIFICATIONS (continued):

ELECTRONIC SYSTEM DESCRIPTION - Micro-processor is Pentium-based, including:

CPU with data acquisition Keyboard

High resolution, color Color LCD Monitor

Mouse Audio

Manuals Graphics printer for hard copy - 4 trace graphs

- 3.5" floppy disk - For data storage - 30 days per disk. CD writer also included.
- 1 gigabyte hard drive - Stores programs, plus room to add additional new software functions in the future.
- Specialized air monitor software.
- Technical Associates standard modular series - all solid state.
- 2 ea. MGA-520 - Fully adjustable single channel analyzer with independent High Voltage power supply;
- 1 ea. MVR-5R Power Supply.
- 1 ea. LNM-5 Strip Chart Recorder or GRP-10 graphics printer.
- 1 ea. Magnehelic gage.

- **High Voltage Supply:** Separately variable for each detector from 0 to 2000 V. Standard FM-5 modular series.
- **Display Monitor:** Showing both real time concentration and accumulated dose for all 3 channels.
- **Accuracy:** ±10% except for resolution loss and statistical variation.
- **Alarms:** Alarms presettable to any trigger level.
 Low Level Alarm: Automatic Reset
 High Level Alarm: High level alarm remains activated until RESET is pushed.
 Alarm Indication: Red-High Level, Amber-Low Level
 Audio: 1000 Hz, greater than 80 db. Also see Safety Features below.
- **Air Moving System:** Air pump: Extremely rugged continuous duty Positive displacement low rotating speed pumping system. Pump is high capacity positive displacement. Pump noise is reduced by heavy duty muffler.
 Pump Drive Motor: 1 HP, 50/60 Hz, capacitor start, induction run.
 Flow Gage: Magnehelic 3-10 cfm, 4" dial.
 Flow Control: Automatic flow control settable 0-4 cfm ±0.2 cfm.
 Inlet and Outlet: 20 foot 3/4" hose inlet; 20 foot 1" hose outlet. May be extended.
 Flow Rate: Factory set at 4 cfm, can be reset up to 5 cfm with larger motor and up to 30 cfm with some plumbing change.
- **Controls:**
 System: ON-OFF Air: ON-OFF
 Printer/Recorder: ON-OFF (each channel) High Level Alarm: Set
 (each channel) High Level Alarm: Reset (each channel) Low Level Alarm:Set
 (each detector) Voltage: Set (each detector) Energy Threshold/Window Set

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- **Outputs:** Alarm condition outputs: 1. logic level signal 2. contact closure-or opening.
 Ethernet and **Optional** modem or server.
- **Standard Installation:** Cabinet of heavy gauge steel. Skid or caster mounted with 4 five inch ball bearing casters, two of which are full swiveling.
- **Special Safety:** Loss of air flow alarm. Loss of signal alarm. All circuits fused.
- **Features:** Thermal protection on motor. **Optional:** Positive displacement ROOTS pump).
- **Dimensions:** 29" wide x 31" long x 41" high exclusive of casters.
- **Weight:** 1800 lbs (lighter systems are available).
- **Shipping Weight:** 2100 lbs (lighter systems are available).
- **OPTIONS:** Air monitor available without air mover or with alternate air movers. Broader range 12 decades. Different detector types. Three push-button check sources (License exempt quantities).
 Positive Displacement of Roots Blower.
 Higher Flow up to 30 cfm.
 Lighter system with less shielding.
 For example 1" shielding.
 Modem and/or Server.

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