

# PORTABLE HIGH VOLUME AIR SAMPLER & TOTALIZER

Model # AS-100  
Model # AS-100-AC

## FEATURES:

- BUILT-IN TIMER
- INTEGRATED TOTAL VOLUME
- READS DIRECTLY IN CUBIC FEET or LITERS
- CAN DRAW AIR FROM HOOD or ROOM
- RS-232 COMPUTER AND/OR DATALOGGER INTERFACE
- AUTO SHUT-OFF ON FLOW TOTAL OR TIME
- QUICK CHANGE 2" DIAMETER GLASS FIBER FILTER
- 227 LITERS/MIN (7.5 cfm)
- ACCURATELY MEASURES FLOW RATE, TOTAL FLOW, & TIME
- BREATHING ZONE (**OPTIONAL** TRIPOD)
- BATTERY POWER (AC POWER **OPTIONAL**)
- **OPTIONAL** REAL-TIME ALPHA-BETA DETECTOR MODEL **FR-PIB**
- **OPTIONAL** REAL TIME ALARM

**APPLICATION:** The **AS-100** provides integrated air volume information. It is sensitive and versatile. Although designed as an industrial workplace and hospital breathing air measurement system, it may be used to monitor fume hoods and stack effluent down to EPA levels.

**DESCRIPTION:** The **AS-100** uses standard 2" diameter glass fiber filters in TA's unique quick change, no leak holders to trap any airborne particulates. Optionally with Model **FR-PIB** the filter is under constant surveillance via a GM or scintillation detector. Air is drawn by a high volume pump through a flow sensor and exhausted through an **optional** short three-foot hose. An Inlet and outlet hose may be attached to allow monitoring of hoods, glove boxes, stacks, etc. The unit is completely self-contained and portable. Complete with 10 filters.



Figure 1: AS-100-AC

**TA** **TECHNICAL ASSOCIATES**  
7051 ETON AVENUE \* CANOGA PARK, CA 91303 TELEPHONE (818) 883-7043 \* FAX(818) 883-6103

\$Revision: 1.2\$

# PORTABLE IODINE MONITOR

Model# AS-100  
Model # AS-100-AC

## SPECIFICATIONS:

<b>Electronics:</b>	Programmable.
<b>Pump:</b>	High Flow Pump and Filter holder.
<b>Flow Rate:</b>	227 liters/min (7.5 cfm)
<b>Filters:</b>	Includes package of glass fiber filter papers.
<b>Air Inlet:</b>	Direct from room or environment (or <b>Optional</b> inlet hose).
<b>Breathing Zone:</b>	<b>Optional</b> Tripod.
<b>Filter Holder:</b>	Unique TA Quick-Change Filter. <b>Optional</b> Holder for larger filters, such as 4" dia. or rectangular filters.
<b>Filters:</b>	2" dia. glass filters also can use wide variety of 2" filters.
<b>Flow Rate:</b>	Typical 227 lpm (7.5 cfm).
<b>Flow Measure:</b>	Precision Air turbine and sensor give Real-time flow rate and total flow.
<b>Analysis and Readout:</b>	On-the-Fly Real-time analysis and readout give continuous flow rate, total flow rate and time.
<b>Display:</b>	6 digit Bright LED Easy to Read. (AS-100AC)
<b>Auto-Shut Off:</b>	Triggered by preset sample time or preset total flow value.
<b>Data Output:</b>	RS-232 data port is standard.
<b>Case:</b>	Electronics housed in enameled aluminum housing; handle included.
<b>Dimensions:</b>	17"W x 13"H x 13 1/2"D.
<b>Power:</b>	<b>AS-100:</b> 12-24Volt DC. <b>AS-100-AC:</b> 115Volt AC ( <b>Optional</b> 230VAC).
<b>Shipping Weight:</b>	84 lbs (Including Tripod).



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# PORTABLE IODINE MONITOR

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## SPECIFICATIONS (Continued):

### Options:

Inlet hose from hood, stack or other location.  
Tripod.  
Alarm - Settable 2000 Hz beeper and red flasher.  
Built-in web server allows authorized remote readout any where in the world.  
Serial Printer.

**Optional Alpha-Beta Detector:** Model **FR-PIB** Air Monitor assures Safety against airborne radioactivity contamination by means of constant check with alarm and **Optional** record capability.

<b>Model:</b>	<b>FR-PIB</b>
<b>Portability:</b>	Portable
<b>Detector:</b>	T-1190 GM Tube
<b>Size/Material:</b>	2" dia. Pancake
<b>Window:</b>	Mica 1.5 - 2.0 mg/cm <sup>2</sup>
<b>Detector:</b>	Beta, Gamma Removal of Alpha Shield allows detection of Alphas.
<b>Iodine:</b>	I-131
<b>Detects Particulates:</b>	Yes
<b>Detects Aerosol &amp; Reactive Gases*:</b>	Yes
<b>Filter:</b>	Charcoal Filter Paper 2" dia.
<b>Iodine Sensitivity: (30 min)</b>	$5 \times 10^{-11} \mu\text{Ci/cc}$
<b>Public Release: (<math>1 \times 10^{-10} \mu\text{Ci/cc}</math>) Iodine</b>	1/2 x Public Release
<b>Weights:</b>	
Electronics:	4 lbs
Detector+Filter:	2 lbs
Pump:	20 lbs
<b>Shielding:</b>	None
<i>*Detects all airborne activity except Noble Gases, H-3, C-14, S-35, Fe-55.</i>	
<b>Electronics:</b>	PRS-5

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