Handheld Particle Counters
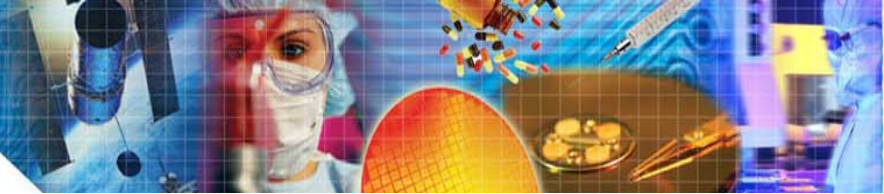
LIGHTHOUSE
WORLDWIDE SOLUTIONS

RELIABILITY YOU CAN COUNT ON

Overview Lighthouse Handhelds
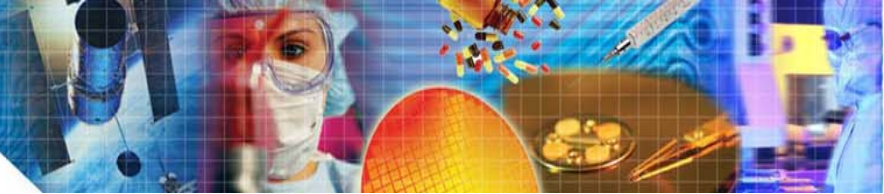
Handheld 2016
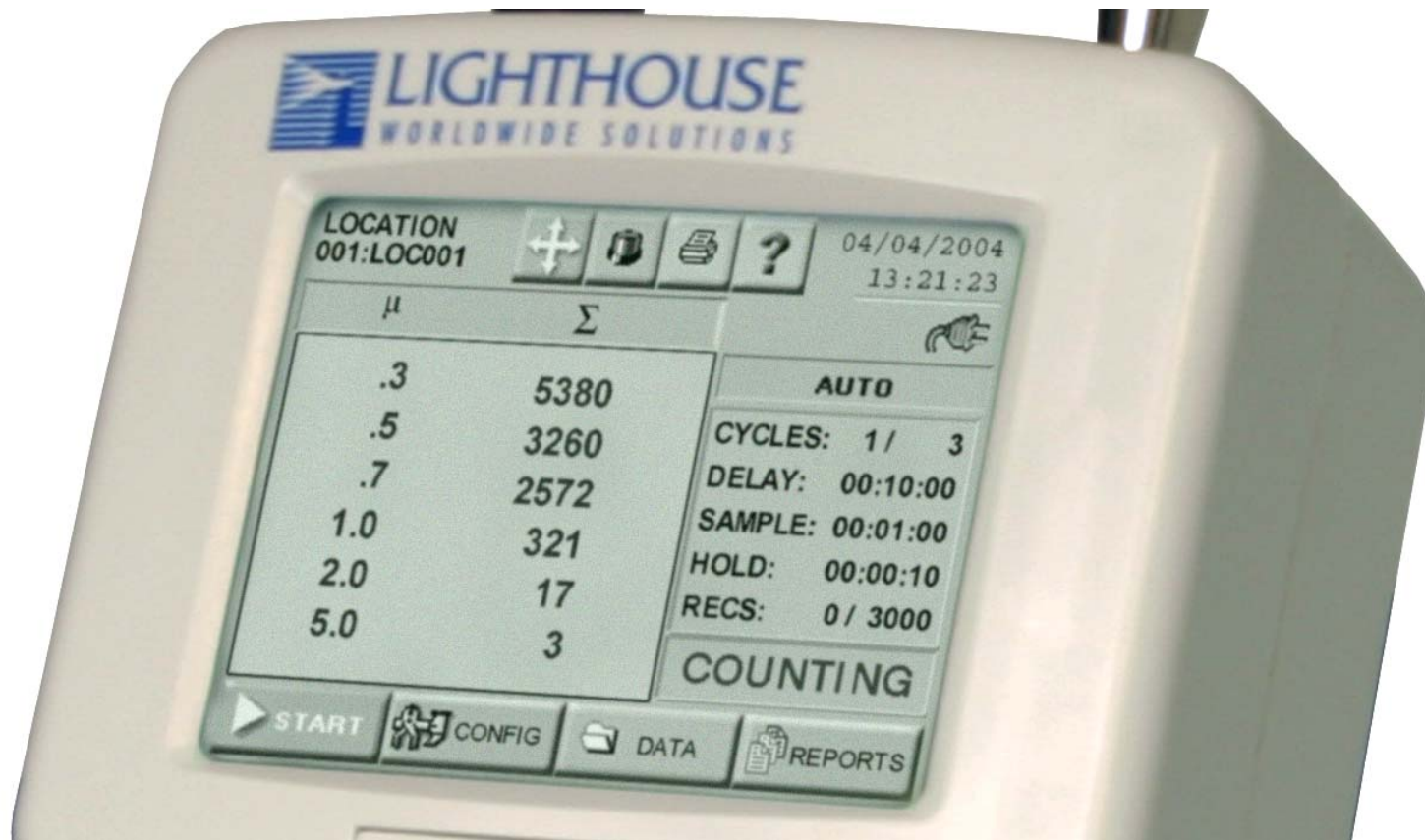**0.2µm**

Handheld 3016
0.3µm

**Only Lighthouse Offers
This Variety of Handhelds
With Sensitivity of 0.2 Micron
and a Concentration Limit of
4,000,000 Particles / Ft^3**

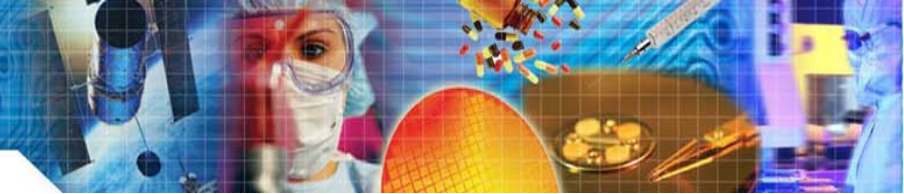**Handheld 5016**
0.5µm

Touch Screen Display
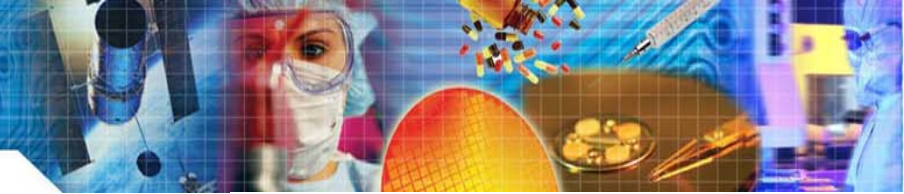

The Handhelds Come with a Touch Screen Display.

Data Record Storage

The Handhelds Have a Storage Capacity of 3,000 data Records.

Each Record Consists of:
Record Time
Record Date
Sample Interval
Location
Particle Data: Raw
Particle Data: Cumulative
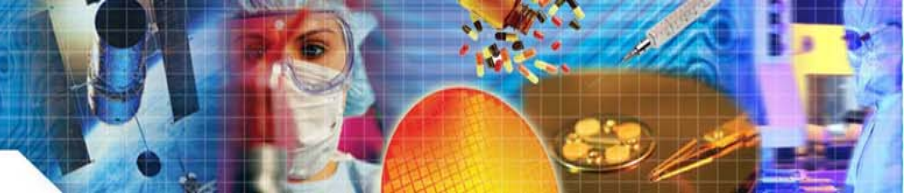**Environmental Data (Temp/RH)**

Concentration Limits

Handheld Concentration Limits
(5% Coincidence Error)

★ **Model 5016: 4,000,000 Particles / Ft^3 @ 0.5µm**

★ **Model 3016: 4,000,000 Particles / Ft^3 @ 0.3µm**

★ **Model 2016: 4,000,000 Particles / Ft^3 @ 0.2µm**

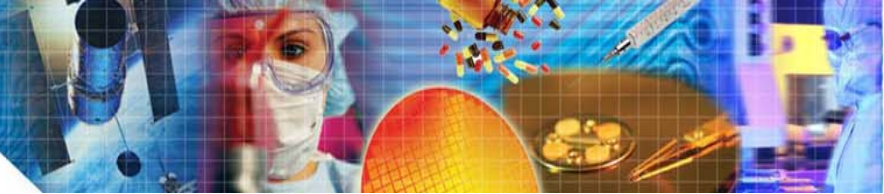**The Handhelds Have a 2x Higher Concentration Limit Than Competitive Products.**

Temperature and Humidity Probe

Temp/RH Probe
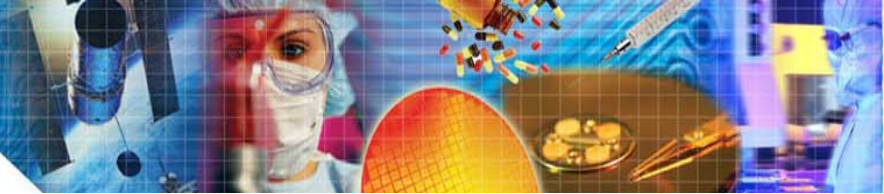
Standard Temp/RH Probe
(Temp +/- 0.3C / 0.5F, Hum +/- 3%)

Ergonomic Design – Single Hand Operation

Handle with Start / Stop Trigger

Handle for Single Hand Operation

The Handhelds Have a Handle with start / stop sampling button built in for single hand operation.

Stainless Steel Kick Stand

Stainless Steel Stand

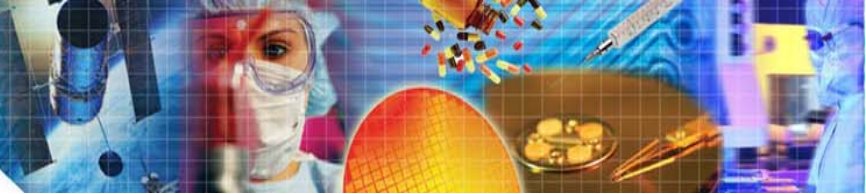**The Handhelds Have a Stainless Steel Stand.**
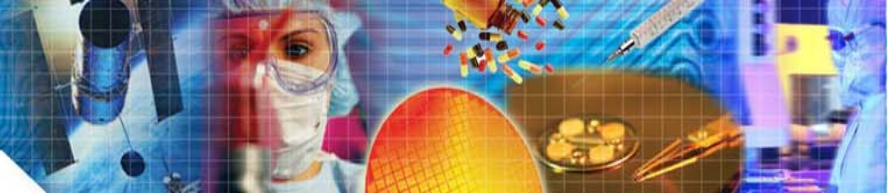
Ease of Operation

Handle for Easy Use

The Handhelds Have an Easy to Hold and Operate Handle.

Removable Battery

Removable Battery

The Handhelds Have a Removable Battery.
(optional external charger and spare batteries available)

Main Screen Information
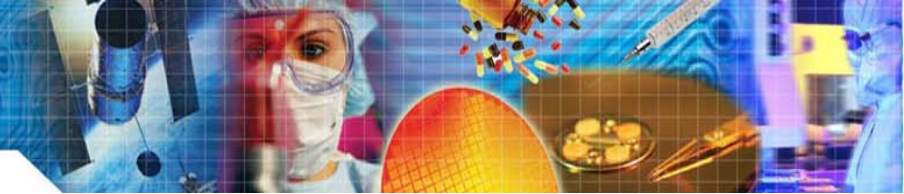
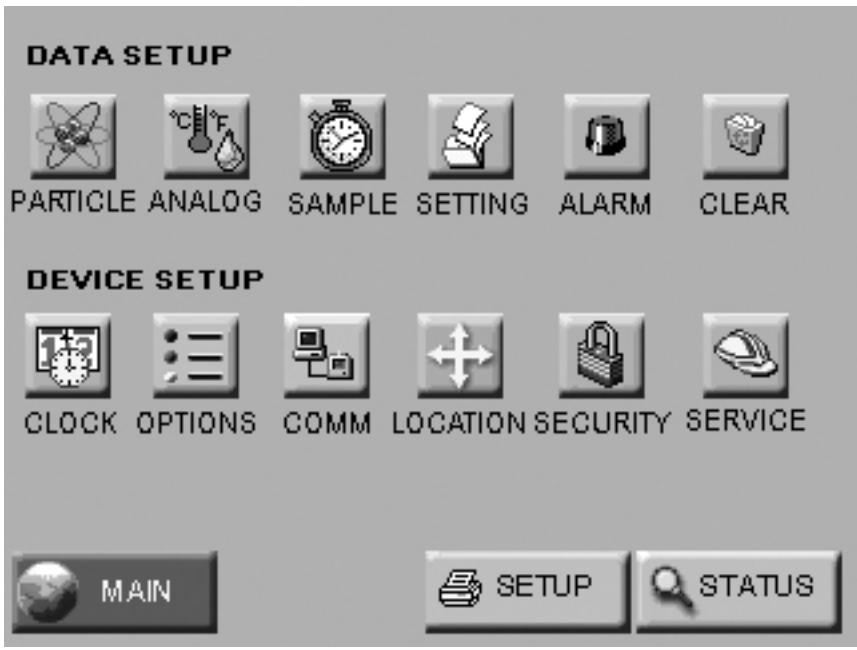# Main Screen Buttons

Zoom Screen

Zoomed View

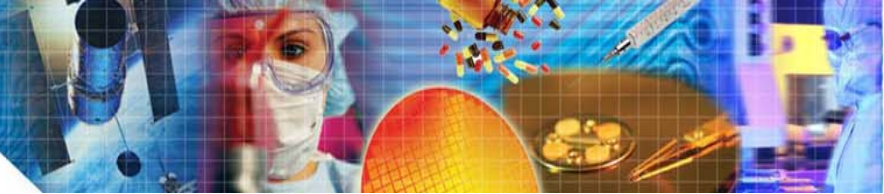## No Other Handheld Particle Counter Can Zoom!

Icon Based Configuration

Configuration Main Screen

Easy to Use and Learn Icon Based Configuration Saves Time and Money When Creating Operating Procedures and Training Operators
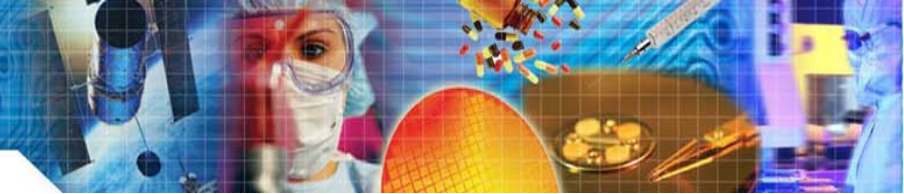
Particle Channel Set-up

Users Can Select What Particle Size Channels are Stored and Displayed

Analog Screen

ANALOGS	TYPE	MIN	MAX	UNITS
A1	TEMP	0.00	150.00	F
A2	RH	0.00	100.00	PCT
A3	AIRV	0.00	200.00	FPM
X		0.00	100.00	

MAIN   BACK

Configuration of Analog Sensors

Sample Setup

Programmable:

- **Number of Cycles**
- **Delay Time**
- **Hold Time**
- **Sample Time**

Sample for Time or Volume:

- **Cubic Feet**
- **Cubic Meter**
- **Liter**

Sample Setting

Count Modes:

    Automatic

    Manual

    Beep

    Concentration
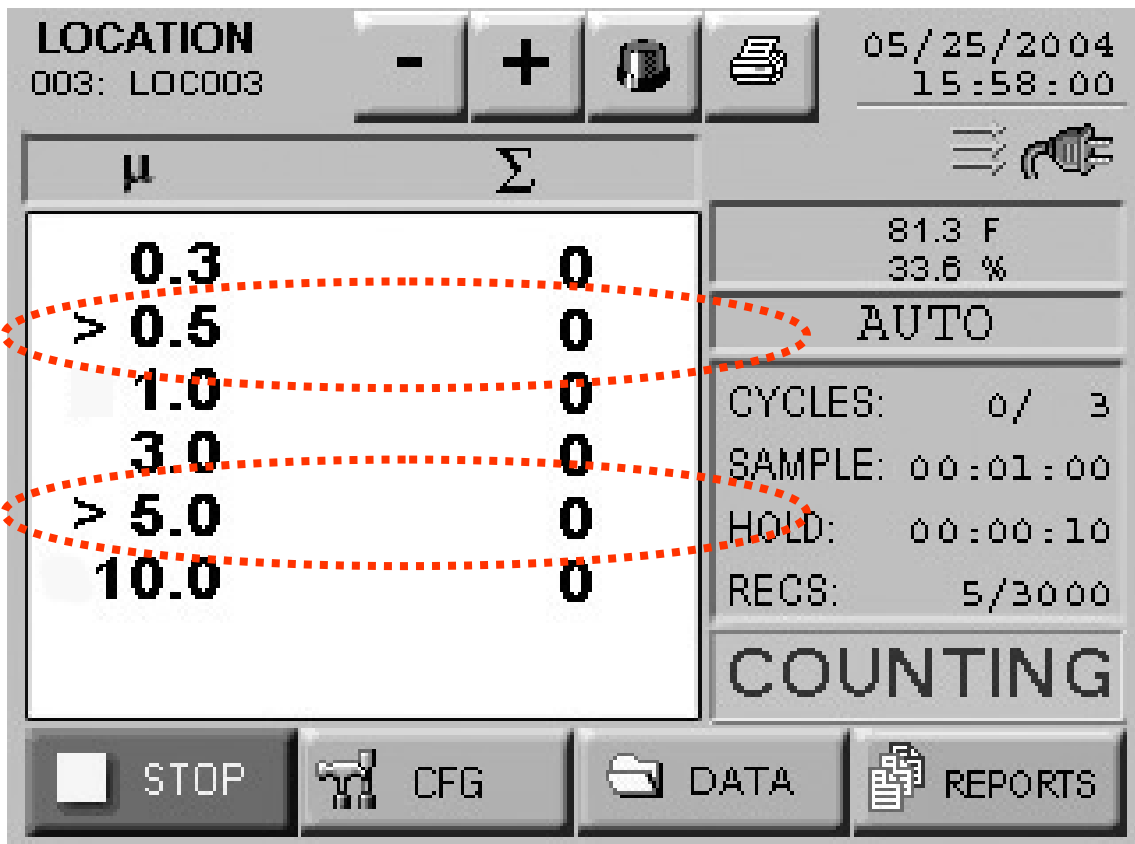
Particle Display

    Cumulative / Differential

    Raw or Normalized

        Normalized to:

    Particles / Cubic Foot

    Particles / Cubic Meter
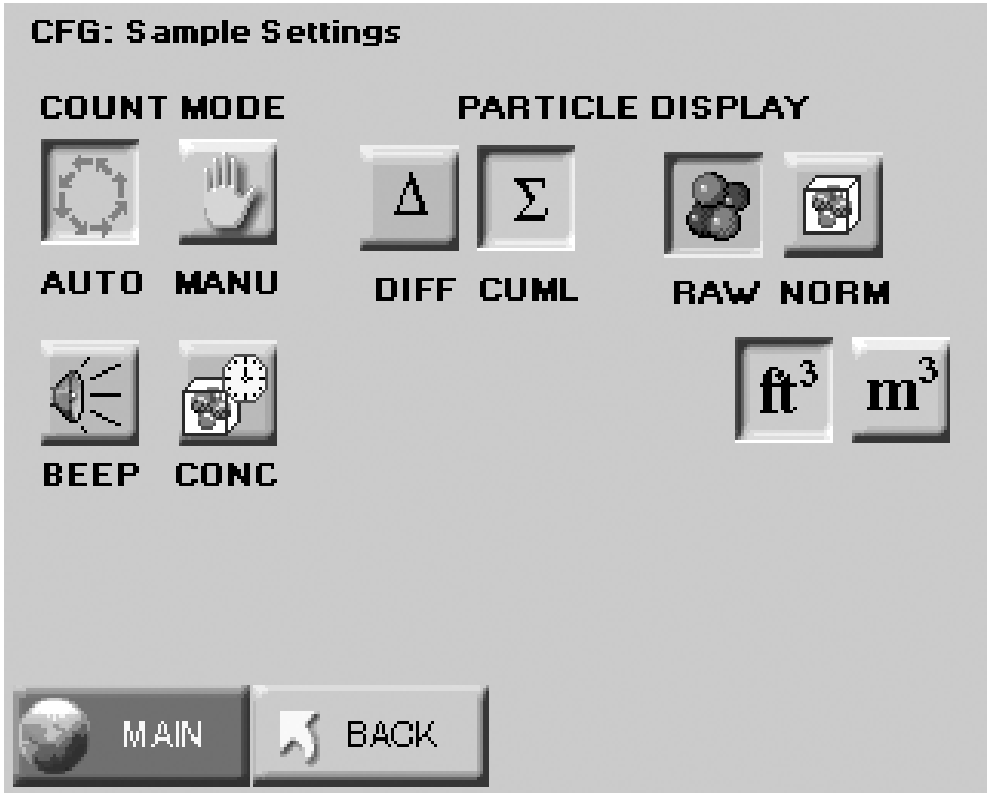
CFG: Sample Settings

COUNT MODE   PARTICLE DISPLAY

AUTO   MANU   DIFF   CUML   RAW   NORM

BEEP   CONC ft^3 m^3

MAIN   BACK

On Screen Alarm

Each individual channel size will be highlighted when it exceeds a preset alarm limit (intelligent alarming).
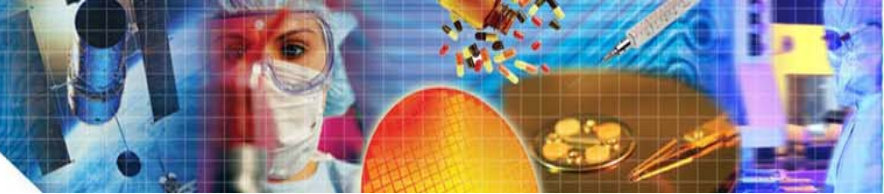
Alarm Set-Up

CFG: Particle Alarm

1	1000	✗	5	10	✓
2	100	✓	6	1000	✗
3	1000	✗			
4	1000	✗			

Press check button to enable or disable particle alarm.

MAIN   BACK

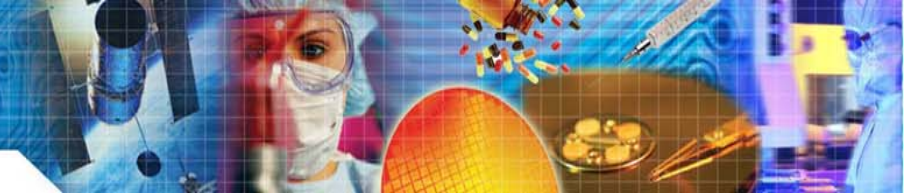**2 Channels for Alarms Programmable By Channel Size**

Printer Setup

Print Automatically on:
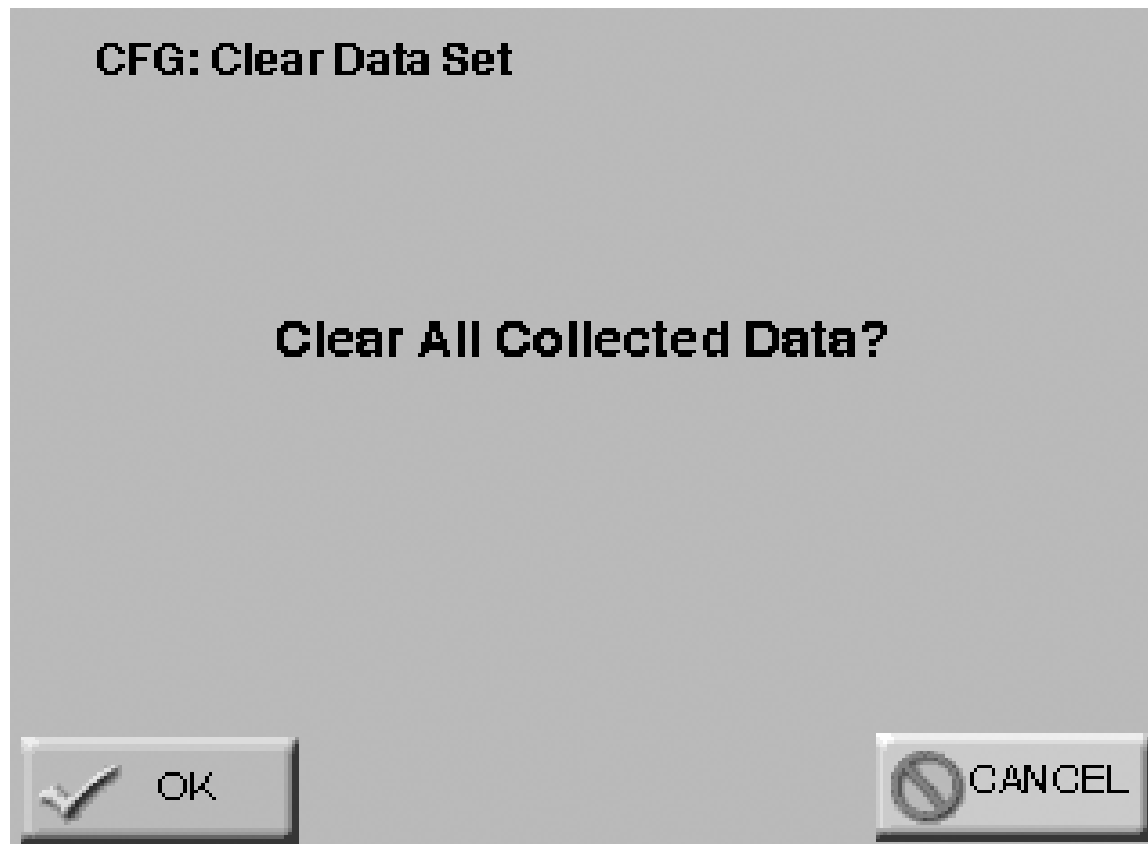   **Each Sample**
        On Alarm

  Print Forward or
     Reverse

Print With or Without
        Model Name
        Serial Number
        Separator
        Cumulative
        Differential
This Saves Paper!

CFG: Printer Setup

Print on Sample
Print on Alarm
Print Reverse

Model Name
Serial Number
Separator
Differential
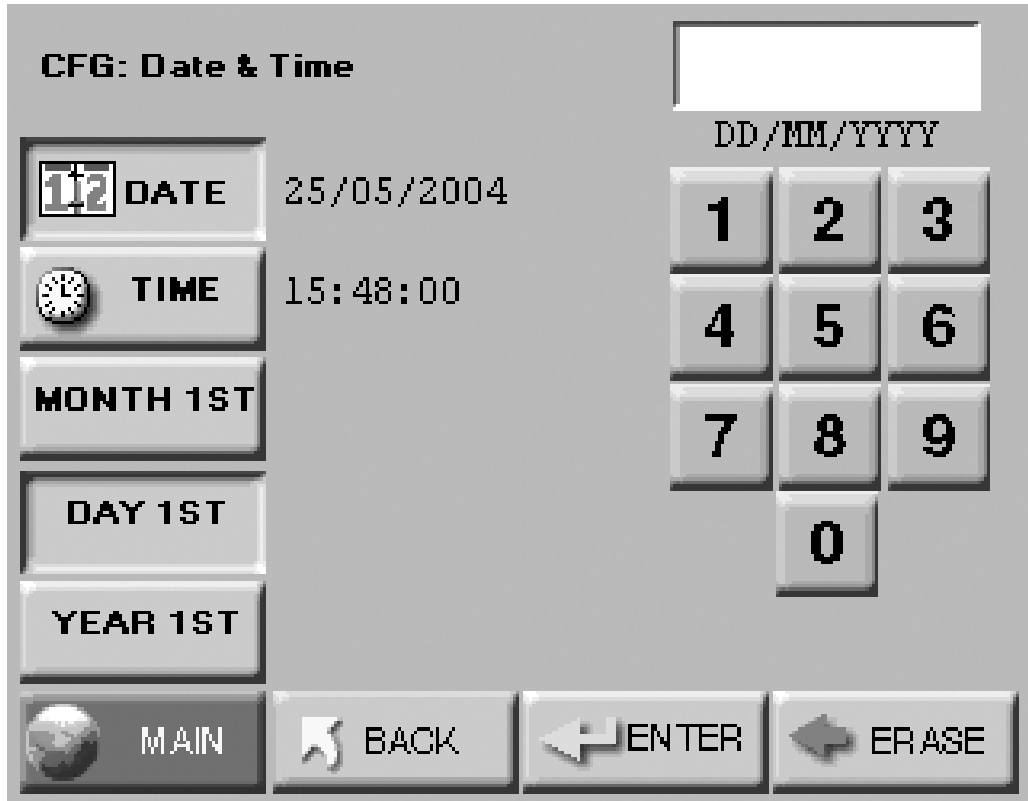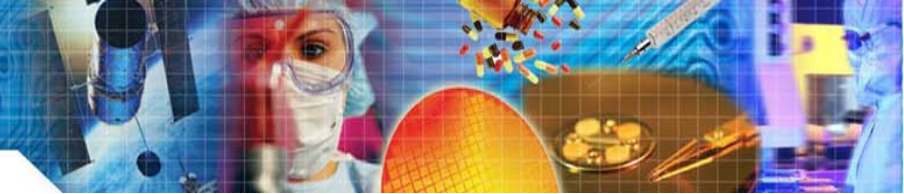Cumulative

MAIN   BACK
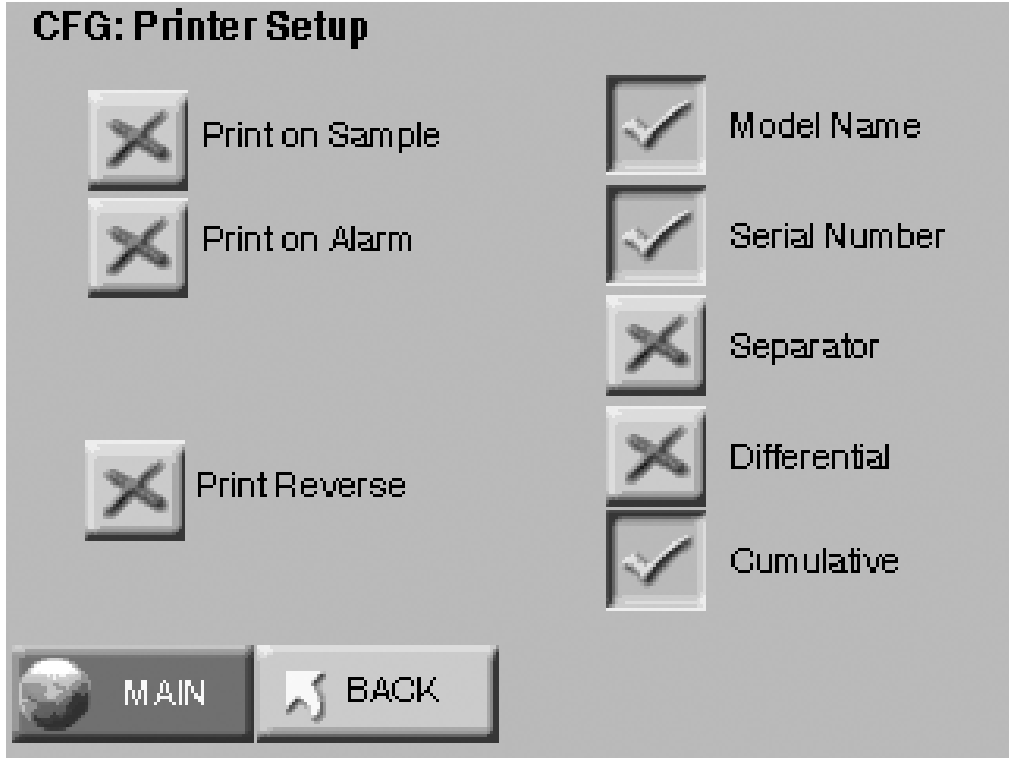
Clear Buffer

The Buffer Can Be Cleared From the Particle Counter

Changeable Date Format

Allows Users To Select The Date Format. MM/DD/YYYY, YYYY/MM/DD or DD/MM/YYYY can be Selected.

Options

Adjust:

★**Screen Brightness**
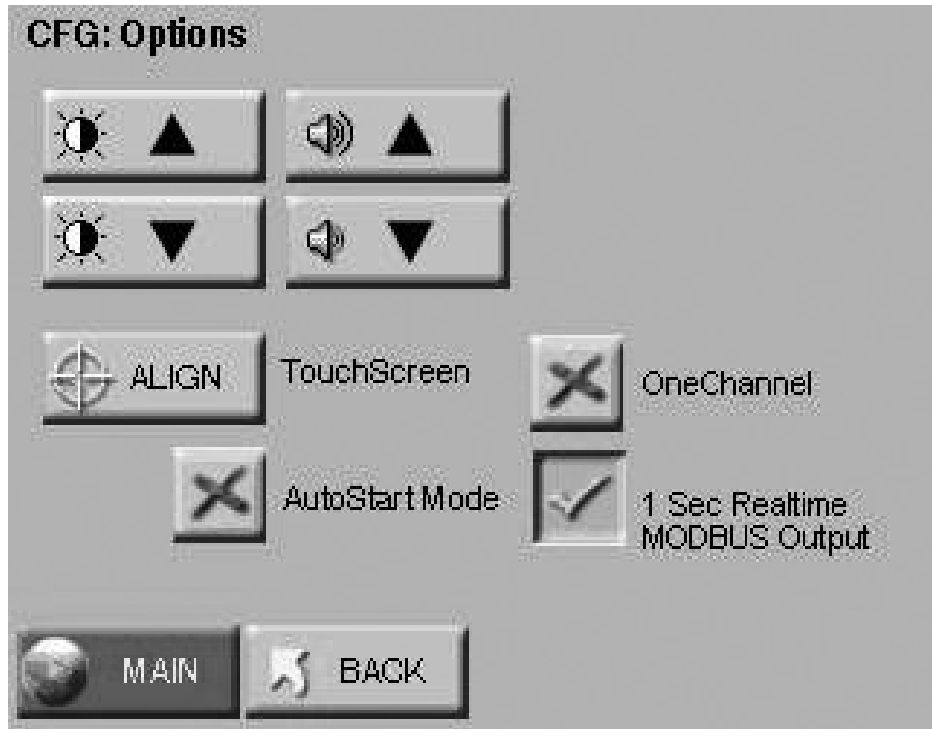
★**Volume**

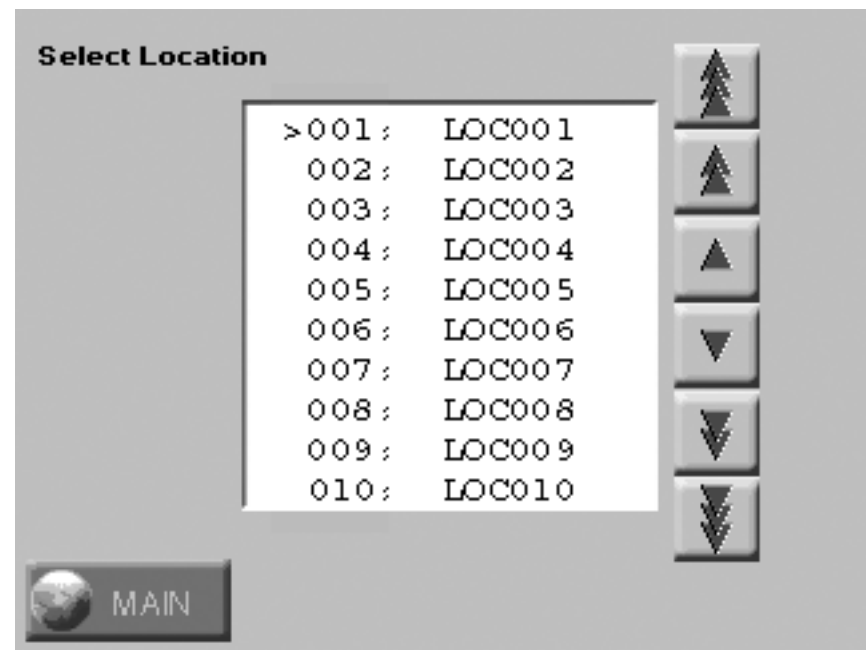**Align Touch Screen**

Select One Channel

Display

Auto Start

(Restart After Power Loss and Restore)

One Second MODBUS

CFG: Options

ALIGN — TouchScreen

OneChannel

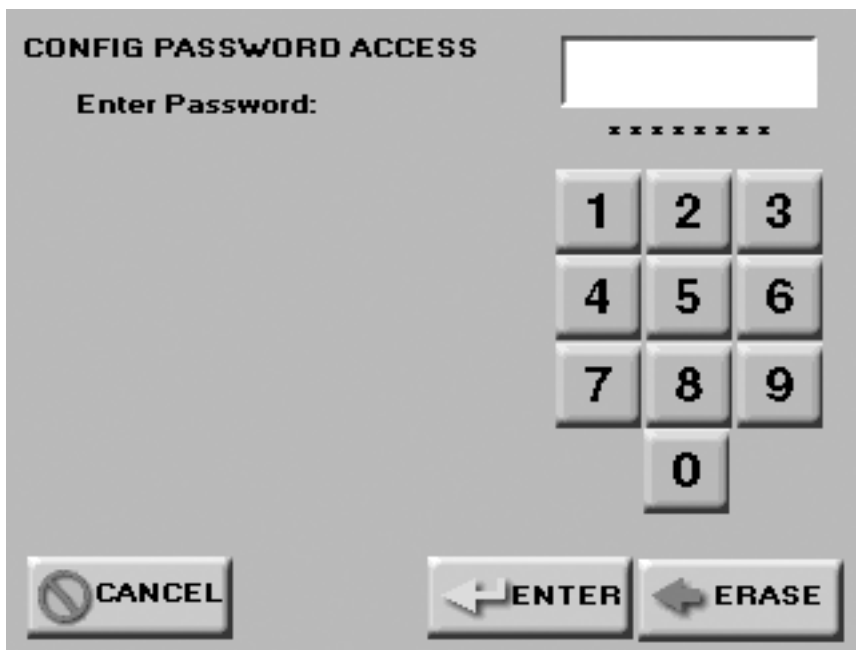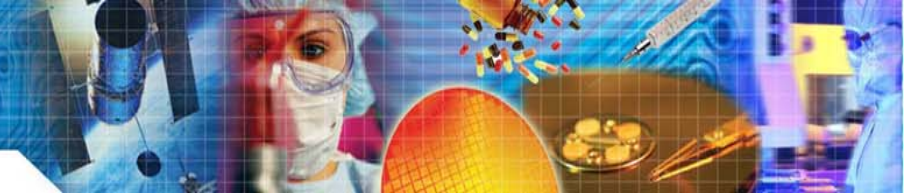AutoStart Mode

1 Sec Realtime MODBUS Output

MAIN   BACK

Alphanumeric Location Labels
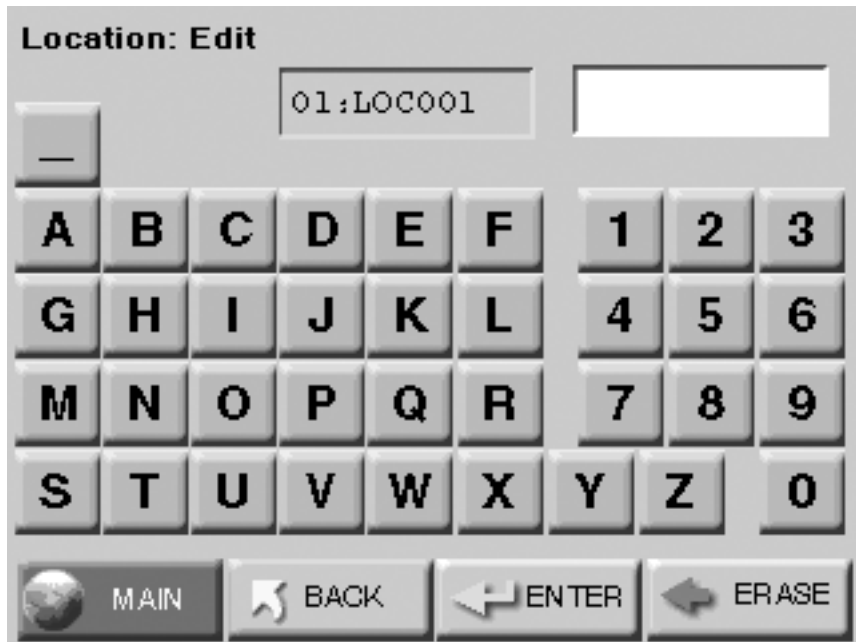
Alpha-Numeric Location Labels: Can Be Uploaded or Downloaded From PC Using LMS XChange or Express Software
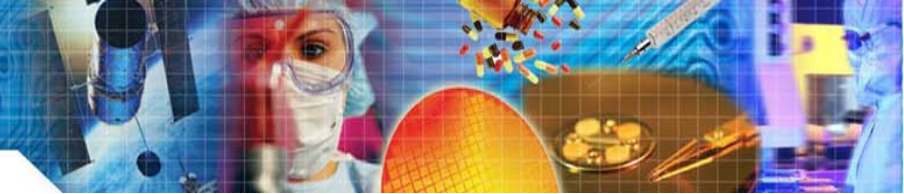
Security

Configuration Password

Power-On Password

This feature allows you to keep unauthorized users from altering the operation of the particle counter.
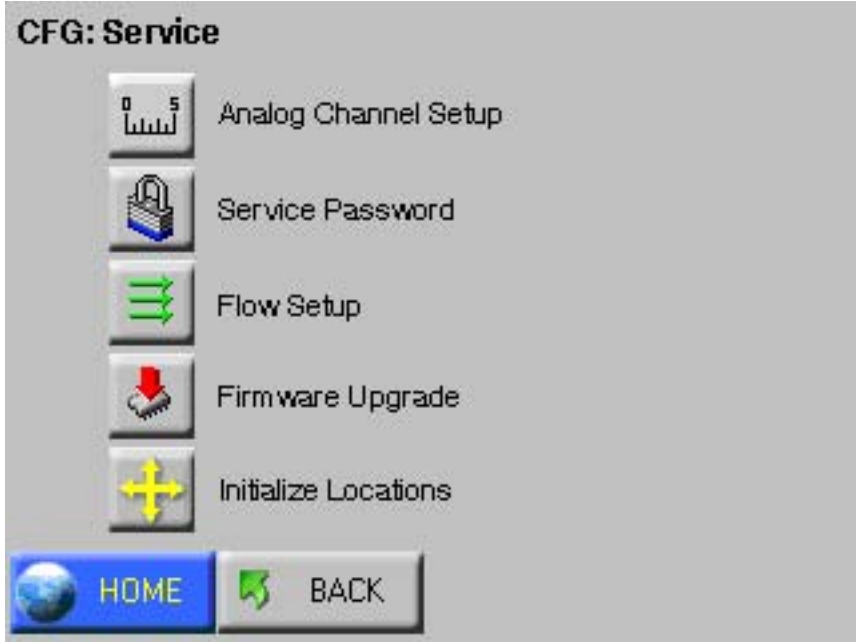
Service Screen

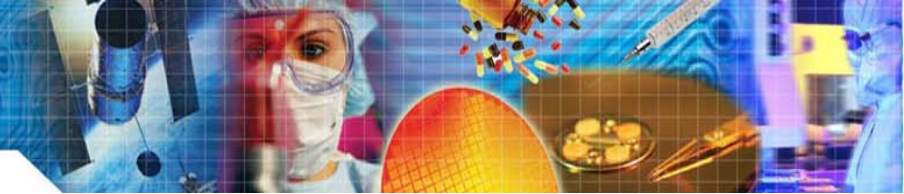**Accessible only by Service Password**

Set-Up
      ★Analog Channels

Set Service Password

Adjust Flow Control

Firmware Upgrade

Initialize Particle Count Locations

CFG: Service

Analog Channel Setup

Service Password

Flow Setup

Firmware Upgrade

Initialize Locations

HOME   BACK

Status Screen
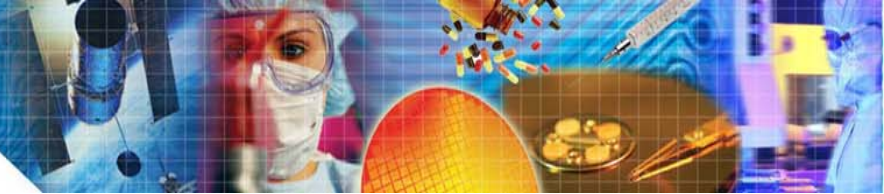
Single Record Viewing and Printing
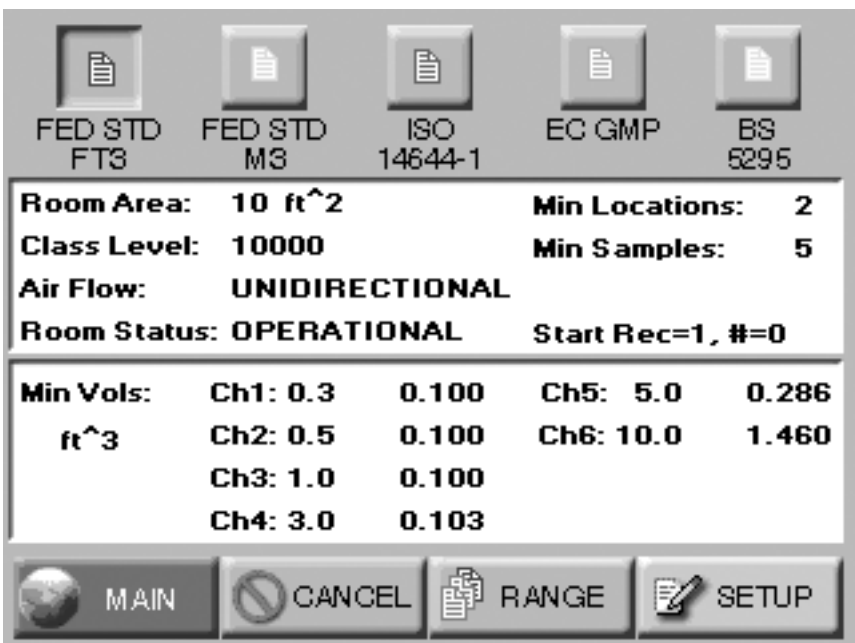
This feature allows viewing a specific record in the buffer and allows printing it without having to print all records.
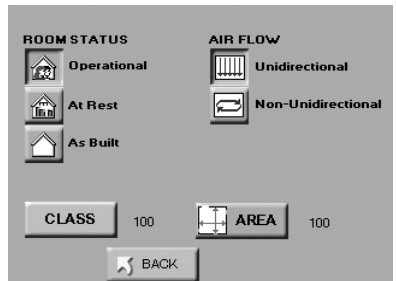
Automatic Report Calculations

Select Room Occupancy Status

Air Flow Type
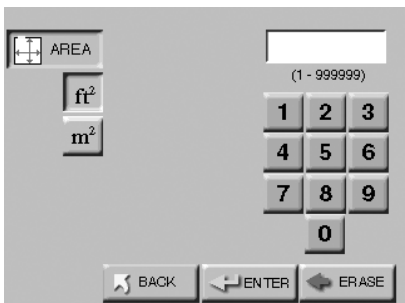
Area
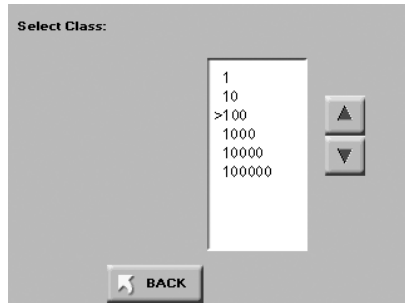
Report Function will Calculate:

★ **# of Samples**

★ **# of Locations**

★ **Volume of Air**

Needed to meet Cleanroom Class Selected

Cleanroom Class

Thank You