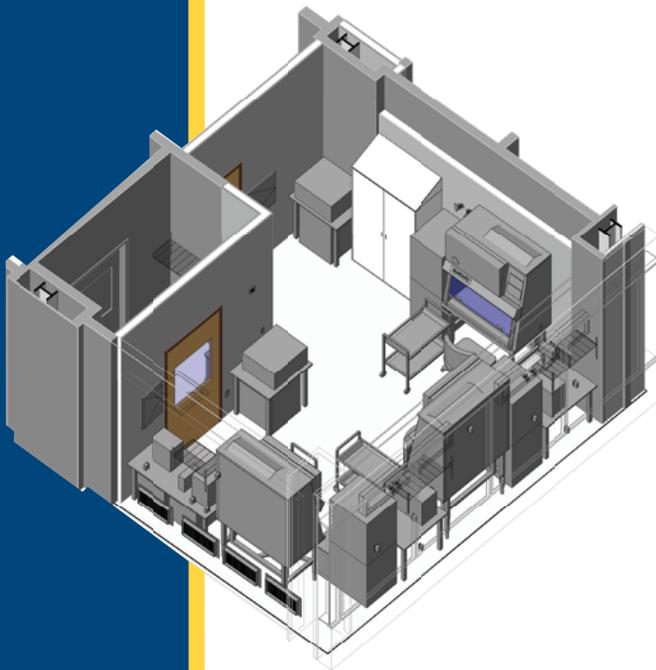


# Express Monitoring System

REAL TIME ENVIRONMENTAL MONITORING



-  Temperature
-  Relative humidity
-  Differential pressure
-  Air velocity
-  Real time particle counters
-  Door status
-  CO<sub>2</sub> levels
-  Microbial samplers
-  O<sub>2</sub> levels
-  Portable particle counter

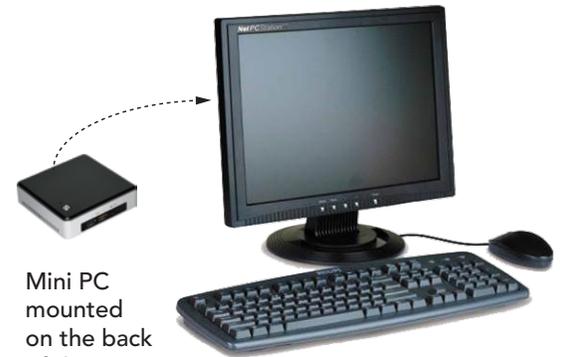
# ExpressMonitoring System

The Lighthouse Express Monitoring System (EMS) monitors critical environmental and process parameters such as temperature, humidity, differential pressure, particle counts, carbon dioxide and many other environmental parameters.

The Express Monitoring System stores data on its integrated Microsoft Access database. Data is displayed via graphs, charts, maps and log files. Operators are alerted to out of specification conditions via email, text, local alarm lights and audible alarms.

Particle counters from Lighthouse can be directly integrated into the system for real-time particle counting of critical environments or portable particle count data can be downloaded into the ExpressMonitoring System.

The Express Monitoring System is a quick, easy, low cost solution for monitoring your critical environments and at the same time achieving compliance with your industry guidelines.



Mini PC mounted on the back of the monitor.

## Sensors:

Select the parameters that you need to monitor:

-  Temperature
-  Relative humidity
-  Differential pressure
-  Air velocity
-  Real time particle counters
-  Door status
-  CO<sub>2</sub> levels
-  Microbial samplers
-  O<sub>2</sub> levels
-  Portable particle counters

## EMS includes:

Computer  
22" monitor  
LMS Express RT Software  
Keyboard and mouse  
Control cabinet 24 ports, RJ45 inputs  
1x8 port gateway  
Power supply

## Features:

Real time monitoring out of the box.  
21 CFR Part 11 compliant software.  
Pre-configured system.  
Real time and historical data review and analysis.  
Alarming notification via text, e-mail, alarm lights.  
Self-executable IQ/OQ validation documents.  
SOP's are included as part of the package.  
Easily expandable and user intuitive.  
Installation manuals and tutorial videos included.  
All sensors come with a 2 year warranty.  
NIST traceable calibration.

## Service and Support:

Turnkey system installation services are available.  
Remote and onsite technical support.  
Onsite and offsite NIST traceable calibration.  
Online RMA application via website.  
Full validation support is available.  
Service level agreements.

Pharmaceutical

Biotechnology

Medical device

Semiconductor

Universities

# Start real time monitoring in your environment.

Blood Banks, Tissue Banks, Stem Cell Research, Animal Research, Compounding Labs, Hospitals, University Research, Plant Research, Electronics, Medical Device, 503B Compounding, IVF Lab

## Cleanrooms

Particle counts in air, liquid and gas.  
Temperature  
Humidity  
Differential pressure  
Air velocity  
Door status  
CO<sub>2</sub> levels  
O<sub>2</sub> levels



## Refrigerators

Temperature  
(0 - 30 C°)  
Door status



## Freezers

Temperature  
(-200 - 0 C°)  
Door status



## BioSafety Cabinets

Partical counting  
Viable sampling  
Air velocity  
Differential pressure



## Incubators

Temperature  
Humidity  
CO<sub>2</sub> levels  
Door status



## Ovens

Temperature  
(0 - 400 C°)  
Door status



## Stability Chamber

Temperature  
Humidity  
Door status



## High Purity Gases

Pressure  
Particle



## Dry Box

Particle  
Temperature  
Humidity  
Door status



## Agriculture

Particle  
PAR  
Temp/Hum  
CO<sub>2</sub>  
Soil Moisture  
Fertigation (Temp, Flow, Resistivity, pH, DO)



## Mini Environments

Particle  
Temperature  
Humidity  
Differential pressure  
Air velocity  
Door status



## Paint booths

Particle  
Temperature  
Humidity  
Air velocity  
Differential pressure



Aerospace

Compounding pharmacies

Animal science

Agriculture

Hospitals

# ExpressMonitoring System

REAL TIME ENVIRONMENTAL MONITORING

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D I S T R I B U T E D   B Y :



MADE IN USA