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## Система экспресс-мониторинга EMS. Техническое описание



### Real-Time Monitoring out of the Box

The EMS (Express Monitoring) System is a quick, easy, low-cost solution to monitor your critical environments and at the same time achieve compliance with your industry guidelines.

Designed to be a preconfigured, easily installed system by the customer inside of their cleanroom or environment for a continuous Environmental Monitoring System. This simple and easy-to-use solution allows you to install and set up with ease. Installation manuals will be supplied to support the installation and setup process.

### EMS Features

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

#### **Features include:**

**Real-time monitoring out of the box | 21 CFR Part 11 compliant software | Pre-configured system | Real-time & historical data analysis | Alarm notification: e-mail/alarm lights | Self-executable IQ/OQ documents | SOP's included as part of the package | Installation manuals | All sensors come with a 2-year warranty**

#### **Capability to Monitor Other Environmental Parameters**

With the Express Monitoring System, you will be able to monitor multiple environmental parameters. All of this data can be integrated into your Express Monitoring System. This will allow you to have all of your data centrally located, as well as to set up alarms based upon these environmental parameters.

**The environmental parameters you will be able to monitor will include the following:**

**Particle Counts | Temp/RH | Differential Pressure | Air Velocity | Door Status | CO<sub>2</sub> Levels | Viable Particles | O<sub>2</sub> Levels**

### **. Hazard identification**

Identify potential hazards that could affect the cleanroom environment. This can include sources of contamination, such as personnel, equipment, materials, utilities, or processes.

### **. Risk analysis**

Analyze each identified hazard's severity, likelihood, and potential consequences to prioritize risks based on their significance.

### **. Risk evaluation**

Evaluate the severity and likelihood of identified risks to identify top threats to the cleanroom environment that demand immediate attention.

## **. Develop control measures**

Develop and apply risk control measures to mitigate or eliminate identified risks, including procedural and engineering controls, personnel training, equipment maintenance, and process enhancements. The objective is to minimize the likelihood and severity of risks.

## **. Documentation and communication**

Document the risk assessment process, including identified risks and implemented control measures. Effectively communicate this information to relevant stakeholders, including cleanroom personnel, management, and regulatory authorities.

## Monitoring and review

Review ongoing monitoring and evaluation of the implemented risk control measures. Conduct regular risk reassessments to identify new hazards or changes in the cleanroom environment that may necessitate adjustments to the EMS or risk mitigation strategies.

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