

IMS TEMPERATURE MAPPING STUDIES

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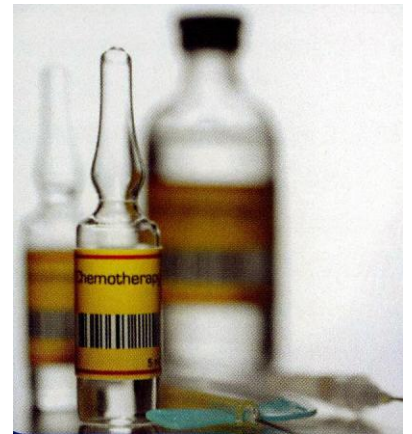
INTRODUCTION

A critical control parameter in the storage and distribution of pharmaceuticals, food and many other products in Hospitals today, is temperature.

More and more, industries are requiring a validation of the temperatures in which environmentally sensitive products are stored. On the one hand, monitoring systems such as an **Integrated Monitoring Solutions (IMS) EDX** system can provide real-time, wireless access to environmental conditions, and notifications of temperature excursions. However, ongoing monitoring is not necessarily cost-effective in all situations, nor can it provide the required level of granularity to measure detailed temperature variations within an area.

A cost-effective means to evaluate temperature storage profiles in a variety of locations, as well as to provide a high degree of temperature differentiation in an area, is through the completion of a temperature mapping study.

IMS temperature mapping studies are typically completed over a 10 to 14 day period, using calibrated (N.I.S.T. traceable) and self-contained temperature loggers. A report, including the results, recommendations and logger validation certificates are available shortly thereafter.



Temperature mapping results, and the related documentation, are an integral component in supporting quality assurance programs, minimizing product loss through inappropriate storage conditions, meeting legislative and regulatory requirements, and in addressing patient safety issues related to maximum drug potency, as achieved through appropriate drug storage. ***IMS is available to meet your temperature mapping requirements.***

TEMPERATURE MAPPING OBJECTIVES

IMS Temperature Mapping Studies are flexible, and are user defined, to meet your requirements. Study objectives can include:

1. The mapping of temperatures, and variations, within single and multiple storage locations. This may range from a small 2.0 cubic foot refrigerator, to storage trailers to warehouses in excess of 300,000 square feet.

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2. The mapping of temperature changes, and variations, by day of the week, and time of day.
3. Comparisons of actual temperatures to pre-set storage temperature settings.
4. An identification of high and low temperature fluctuations in relation to HVAC system response cycles.
5. Comparisons of changes in storage temperatures to changes in the external ambient temperatures.
6. Seasonal studies (e.g., winter and summer) to determine the impact of external environmental conditions on internal storage conditions, and the ability of facility heating and cooling systems to respond to extreme external temperatures.
7. An assessment of the ability of a storage facility to reach equilibrium, when stressed through factors that may affect the overall storage temperature, such as, door openings, the timing cycle of the HVAC system, etc.
8. An identification of potential airflow issues, as they would relate to temperature variations and product storage
9. The development of recommendations related to the storage location of temperature sensitive products, in consideration of temperature variation issues.
10. Recommendations related to any HVAC, or HVAC control, issues.
11. Mean Kinetic Temperatures (MKT) for individual and aggregate areas.
12. The identification of the optimal placement of sensors for on-going monitoring systems, such as the **IMS EDX** system.

INTEGRATED MONITORING SOLUTIONS OVERVIEW

Integrated Monitoring Solutions (IMS) is a wireless Cold Chain management company providing reliable and cost effective monitoring solutions for industries offering temperature sensitive products. Experience a competitive advantage with **IMS** solutions - ensure the quality of your products, and that you address regulatory and legislative requirements.

FOR FURTHER INFORMATION

For Information about **Integrated Monitoring Solutions**, and **Temperature Mapping Studies**, please contact Omega Communications Ltd:

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