

8 Steps to Validating/Mapping a Chamber



Periodic mapping of conditions within environmental chambers is critical for compliance in ISO regulated applications, system validation of conditions such as temperature, and structural loads, as mandated (1-1-17). This application note demonstrates some typical methods used to map environmental chamber conditions. From one end to another, various data logger technologies exist for applications such as: (1) one-time validation only, and (2) continuous validation and trend report using data loggers in the working state.

Step 1 Write a Validation Plan

Write a detailed description of the validation or testing, including a list of the conditions to be used, and the acceptance criteria to be used. These items must address the full range of conditions to be tested. These are critical questions. The answers provided will identify the testing protocol to be followed.

When regulations and applications need to comply with test-to-prove of compliance to the specific conditions of the facility (i.e. ISO 9001, etc.) you will need the most complete and updated information

about regulatory bodies and temperature mapping of controlled spaces. This should specify any specific test methods or standards used to document and provide justification for test mapping activities.

How many data points do you need to collect?
This question will vary based on a number of factors including environmental, space area, ISO requirements, test system, number of tests used to map, and standards used to test.

How often do you plan to do the mapping of sample locations

Validation Methods

- **Step 1**
Write a plan
- **Step 2**
Check equipment & instrumentation
- **Step 3**
Documented process
- **Step 4**
Set up the data logger
- **Step 5**
Check the test setup
- **Step 6**
Periodically check the process
- **Step 7**
Monitor and trend the data
- **Step 8**
Report the findings

within a chamber and the location of any other monitoring applications that may be in use. Loggers and data trend system and use logger in the test state.

How often do you need to test loggers and data trend system and use logger in the test state?

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8 Steps To Mapping Validating A Chamber Vaisala

Chao Zhang



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