

MW3827 Application Note:

Impact of humidity accuracy on packing bags

OUTLINE

When storing MW3827, take care of the bag type and storage temperature when using it, as the characteristics fluctuate depending on the packing bag.

This document shows the type of packaging bag and the amount of characteristic fluctuation at the storage temperature. Static shielding bags are specified in the storage conditions in the specifications. For detailed conditions, refer to the storage conditions in the specifications.

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1 Outline of test

For temperature and humidity sensor that use organic materials for the moisture sensitive film, use the packing bag specified in the storage conditions in the specifications as the polyethylene packing bag affects the humidity accuracy. Characteristic fluctuations are shown below when temperature and humidity sensors are stored and evaluated in each packing bag.





1-1 Content of evaluation

Temperature and humidity sensor packages are stored in various packing bags to evaluate characteristic fluctuations.

Storage period : 28 days (1 month)

Storage temperature : Room temperature, 40°C, 45°C, 50°C

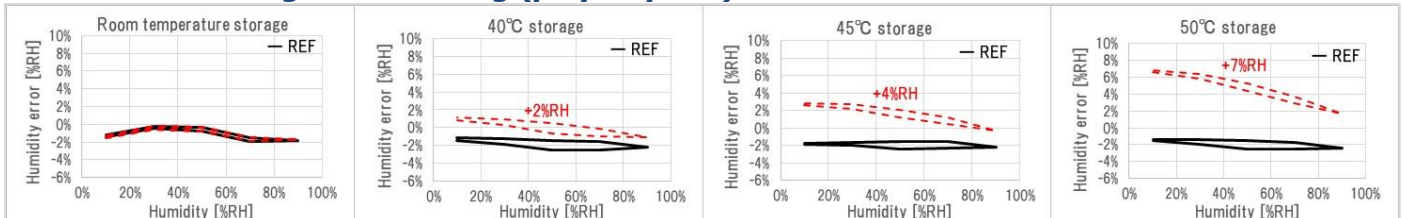
1-2 Storage conditions

Tray (Measurement Reference)	Additive filling antistatic bag (polyethylene)	Static shielding bag (Metal-in construction)	High clean bag
			

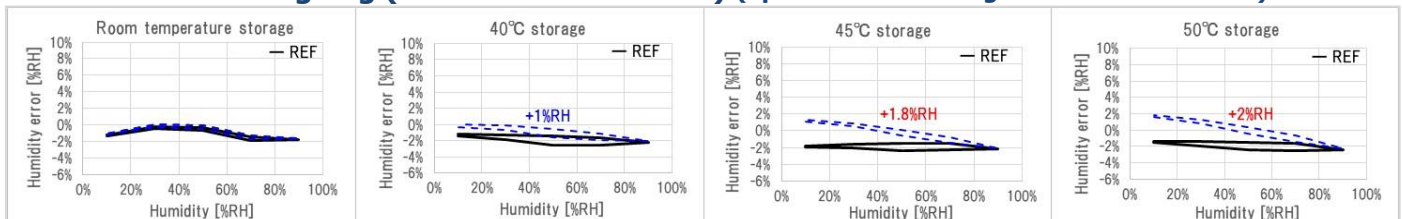
Specified in the storage conditions of the specifications
Temperature : 5°C~30°C/ Humidity : 40%RH~70%RH

2 Test result

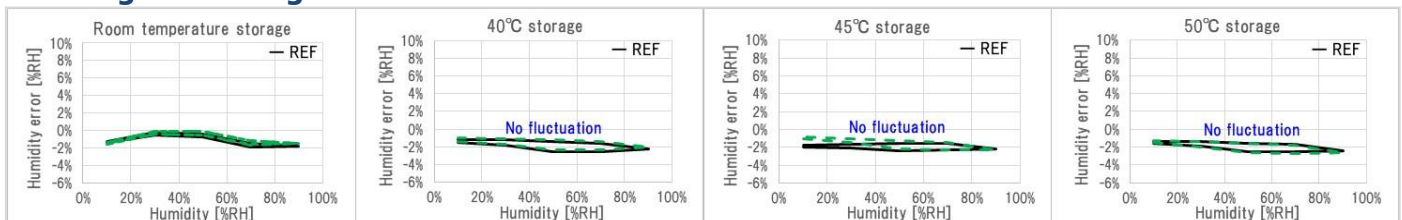
2-1 Additive filling antistatic bag (polyethylene)



2-2 Static shielding bag (Metal-in construction) (Specifications storage condition 5°C~30°C)



2-3 High clean bag



3 Characteristic recovery method

If a characteristic change occurs due to the packing bag, it is possible to restore the characteristics by performing rehydration treatment after baking.

•Baking condition : 125°C20h

•rehydration condition : 85°C85%RH6hrs

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