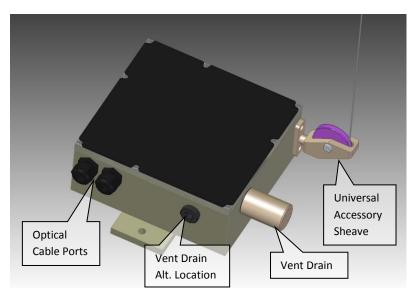


os5500 Displacement Gage Test Summary

The os5500 long range displacement gage provides the user with accurate and long term position measurements for monitoring movement for both static and dynamic applications. The gage is offered in three displacement ranges: 0 - 150mm, 0 - 300mm, and 0 - 450mm. To insure long term reliable measurements, this gage has been subjected to harsh environmental, fatigue, repeatability, and other testing. The following is a summary of the tests and results that insure the long term reliability of the gage.



Environmental Tests:

Temperature cycle 3 gages: F00101, F00102a,

F00105

Temperature range: -40C to +80C

Number of cycles: 500 cycles (400 shown) Instrument: Micron Optics sm125 serial

number SIAB8T

Chamber: ESPEC model PL-1FPH, serial number

12005885

Displacement Error: 2mm for 450mm gage due

to temperature

Test start date: May 7, 2013 Test end date: August 19, 2013

<u>Humidity Soak</u> 3 gages: F00103, F00106, F00107

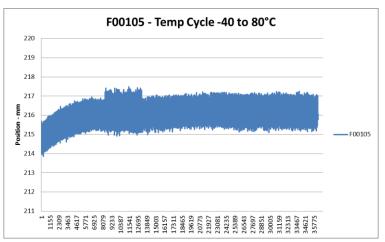
Time: 1000 hours Temperature: 75C Humidity: 75% RH

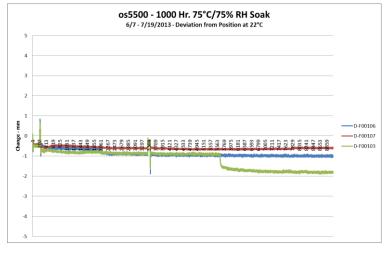
Instrument: Micron Optics sm125, serial

number SIA886

Chamber ESPEC – Model LHU-113, serial

number 1012000693 Displacement Error: <2mm Test Start date: June 6, 2013 Test end date: July 17, 2013





os5500 Test Summary Rev. A

Optical Displacement Gage | os5500



Long Term Outdoor Environmental Test 3 gages from left

to right: F00110, F00108, F00109

Test Start Date: 8/28/2013 Data thru: 6/25/14

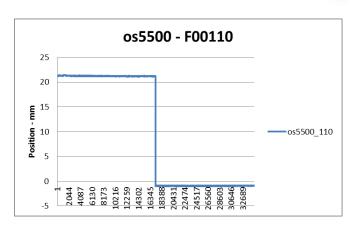
Instrument: Micron Optics sm125 serial, number SIA43E

Location: Atlanta, GA

Step Change indicates change in cable position on Feb. 5,

2014





Fatigue Test

Gage: F00109

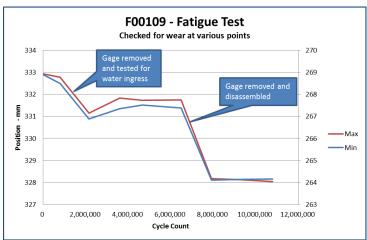
Fatigue Tester: Micron Optics designed (dwg #DQS101222), max stroke 50mm

Instrument: Micron Optics sm130, 1 kHz, serial

number SIA9AY

Recorded 2 second data burst hourly. Data plotted

at 3 day intervals Test Start Date: 5/21/13 Test End Date: 6/24/13



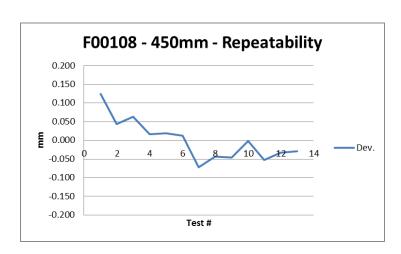
Gage Repeatability

Gage F00108, 450mm range

Test Fixture: Micron Optics Calibration Test Set,

Drawing #DQS130328

Micron Specification: .05% of full scale



os5500 Test Summary Rev. A