

Calibration Report: Wind Sensor

S/N: WM164719

Lilly Grear
NASA Langley/CRAVE Intern
Hampton, Virginia

Summary

Calibration date: 2018 Sep 24

Next Calibration date: As needed

A collection, analysis, and calibration of data from a Wind Sensor, S/N: WM164719 has been completed. R.M. Young, Inc., the manufacturer of the instrument, performed the calibration. The data was collected by R.M. Young on 2018 September 24.

Model: 05108-45-5 Wind Monitor (R.M. Young)

Serial Number: WM164719

The test data presented in graphical format show the sensor to be within +/- 2 degrees in determining wind direction and azimuth. The report also states the wind sensor to be within +/- 0.3 m/s.

The following pages provide more detail into the calibration process and results.

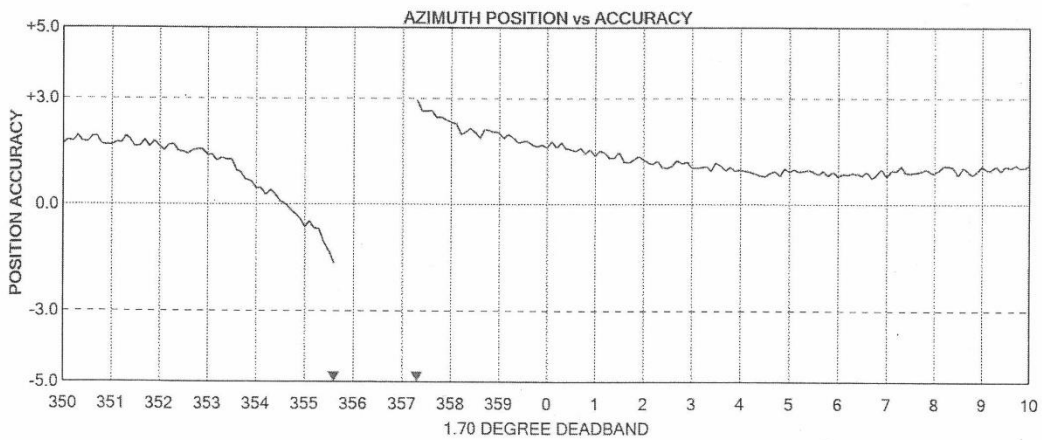
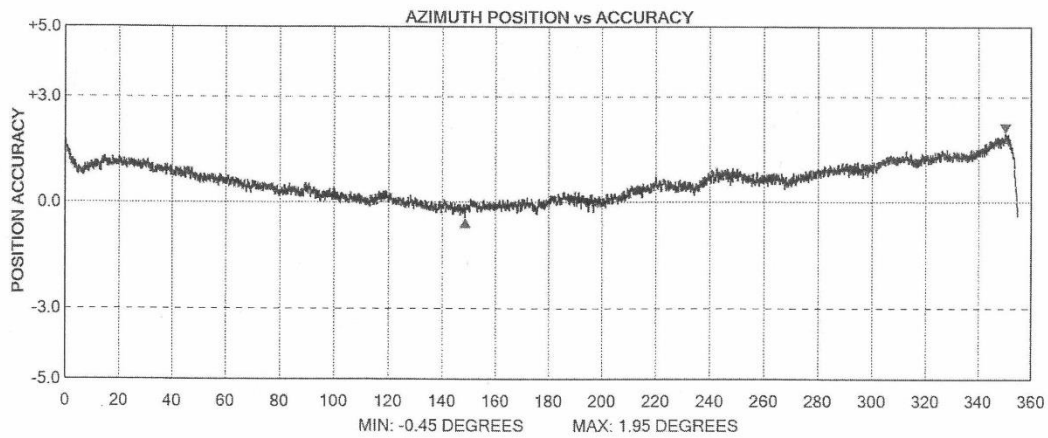
Application: Standard Campbell data logger program for R.M. Young wind sensor.



R. M. YOUNG COMPANY WIND SENSOR CALIBRATION CERTIFICATE

SENSOR: 05108-45-5 WIND MONITOR - HD
SENSOR SERIAL NUMBER: WM164719
BEARINGS: CERAMIC
DATE: SEPTEMBER 24, 2018
WIND SPEED THRESHOLD: PASS
LOW WIND SPEED AMPLITUDE/FREQUENCY TEST: PASS
HIGH WIND SPEED AMPLITUDE/FREQUENCY TEST: PASS
VANE TORQUE TEST: PASS
SPECIAL NOTES:

Inspected By: TH



NOTE: Azimuth Position vs Accuracy graphs are accurate to within 0.5 degrees. The accuracy shown in the potentiometer deadband region between 355 and 0 degrees is the result of no resistance change while position changes. The gap represents the actual deadband (open circuit).

R.M. YOUNG COMPANY 2801 Aero Park Dr, Traverse City, MI 49686 USA
Tel: 231-946-3980 Fax: 231-946-4772 Email: met.sales@youngusa.com Website: www.youngusa.com