



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: Axsys Automation Corp

Model: 200-0007-00

Description: Solar Water Station

Serial Number: N/A

FCC ID: 2AO2920000070

To

FCC Part 1.1310

Date of Issue: March 23, 2018

On the behalf of the applicant:

**Axsys Automation Corp
16043 N. 82nd St.
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Attention of:

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**Prepared By
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Project No: p1820009**

**Kenneth Lee
Project Test Engineer**

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Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	February 21, 2018	Kenneth Lee	Original Document
2.0	March 23, 2018	Kenneth Lee	Updated antenna gain to 6 dBi Updated model name & FCC ID



ILAC / A2LA

Compliance Testing, LLC, has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)

The tests results contained within this test report all fall within our scope of accreditation, unless below

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model: Zero Mass Water Sensor

Description: Solar Water Station

Firmware: N/A

Software: N/A

Serial Number: N/A

Additional Information: The EUT implements OQFSK modulation



Source Based Time Averaged Power Calculation

Average Power calculations

Average Power = Peak Power * duty-cycle%

Tuned Frequency (MHz)	Conducted Peak Output Power (mW)	Duty Cycle (%)	Average Power (mW)
904	644	19.9	128 mW

MPE Evaluation

This is a portable device used in Uncontrolled Exposure environment.

Limits Controlled Exposure 47 CFR 1.1310 Table 1, (A)

0.3-3.0 MHz:	Limit [mW/cm ²] = 100
3.0-30 MHz:	Limit [mW/cm ²] = (900/f ²)
30-300 MHz:	Limit [mW/cm ²] = 1.0
300-1500 MHz:	Limit [mW/cm ²] = f/300
1500-100,000 MHz	Limit [mW/cm ²] = 5

Limits Uncontrolled Exposure 47 CFR 1.1310 Table 1, (B)

0.3-1.234 MHz:	Limit [mW/cm ²] = 100
1.34-30 MHz:	Limit [mW/cm ²] = (180/f ²)
30-300 MHz:	Limit [mW/cm ²] = 0.2
300-1500 MHz:	Limit [mW/cm ²] = f/1500
1500-100,000 MHz	Limit [mW/cm ²] = 1.0

Test Data

Test Frequency, MHz	904
Power, Conducted, mW (P)	128
Antenna Gain Isotropic	6dBi
Antenna Gain Numeric (G)	3.98
Antenna Type	Omni
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm ²

Power Density (S) = 0.1013528569
Limit = (from above table) = 0.603

Note: Max output power value is obtained from associated report.

END OF TEST REPORT