



# **Compliance Testing, LLC**

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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## **Test Report**

**Prepared for: Digital Monitoring Products Inc.**

**Model: 1115**

**Description: Water and Temperature Sensor**

**Serial Number: N/A**

**FCC ID: CCKPC0192**

**To**

**FCC Part 1.1310**

**Date of Issue: December 8, 2016**

**On the behalf of the applicant:**

**Digital Monitoring Products Inc.  
2500 North Partnership Blvd  
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**Attention of:**

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Project No: p16a0004**

**Poona Saber  
Project Test Engineer**

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### Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	October 21, 2016	Poona Saber	Original Document
2.0	December 6, 2016	Poona Saber	Changed the units of power from dBm to mW
3.0	December 8, 2016	Poona Saber	Fixed the power density value



## 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:** 1115

**Description:** Water and temperature sensor



## 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)
905.6	12.1	100	12.1
915.02	13.7	100	13.7
924.39	15.52	100	15.52



## MPE Evaluation

This is a portable device used in Uncontrolled Exposure environment.

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

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

## Test Data

Test Frequency, MHz	924.39
Power, Conducted, mW (P)	15.52
Antenna Gain Isotropic	1 dBi
Antenna Gain Numeric (G)	1.25
Antenna Type	Internal
Distance (R)	20 cm

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

Power Density (S) =0.00385
Limit =(from above table) = 0.61