



# 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  
Springfield, MO 65802

Attention of:

James Wilson  
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Project No: p16a0004

Poona Saber  
Project Test Engineer

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All results contained herein relate only to the sample tested



### 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%

| <b>Tuned Frequency (MHz)</b> | <b>Conducted Peak Output Power (mW)</b> | <b>Duty Cycle (%)</b> | <b>Average Power (mW)</b> |
|------------------------------|---|-----------------------|---------------------------|
| 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 |