

## Certificate of Calibration

**Manufacturer** Radian Research, Inc.  
**Instrument Model:** RD-33-333 Dytronic Portable Standard  
**Serial Number** 301653  
**Firmware Revision:** 07.34.06  
**Error Specification** .01% worst case

ISO 9001:2015 Certified Quality Management System  
 ISO/IEC:17025 Accredited Laboratory

**Customer Name:** Enercom, S.A.  
**Address:** Calle Akee No. 1511-B, Apdo. 0843-00289  
 Balboa, Ancon Panama

**Calibration Lab Name:** Radian Research, Inc.  
**Calibration Lab Address:** 3852 Fortune Drive; Lafayette, IN 47905  
**Calibration Date:** 2-Nov-18

**Environmental Conditions**

Temperature: 23°C +/- 2°C  
 Humidity: between 30% and 60% RMA / Certificate Number: 35016

**Physical Condition:** Undamaged

**Radian Research's As-Found Test Results showed this Instrument to be:**  
 New  In Tolerance  Out of Tolerance  Inoperative  Limited Calibration  
 For Out of Tolerance conditions, As-Found Data Reports are furnished.

Radian Research Inc. certifies the instrument listed above meets or exceeds all published specifications and was calibrated in compliance with ANSI/NCSL Z540-1-1994 "Calibration Laboratories and Measuring and Test Equipment – General Requirements" using applicable Radian Research procedures which meet the requirements of ISO 9001:2015 and ISO/IEC Guide 98-3 "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)".

This instrument was calibrated by a Radian Research RS-933 Syntron Automated Calibration System which is traceable to the National Institute of Standards and Technology (NIST) and/or other National Metrology Institute (NMI). The Automated Calibration system is cross checked and calibrated on a schedule which is adjusted to maintain required accuracies and traceability. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.

**Procedure used for Calibration:** 9912164  
**Software used for Calibration:** Radian Research RS-933 Control Application Version 2.3.6234.24469  
**RS-933 Tool Number:** 9911278

**Standards Used in This Calibration:**

<u>Description</u>	<u>Serial Number(s):</u>	<u>Cal. Source</u>	<u>Cal. Number:</u>	<u>Cal. Due Date:</u>
RS-940B Data Collection Module	704053	Radian Research	704053-20180220	2/20/2019
RS-711 Syntron with RS-932 Boost Module (Phase A)	703143	Radian Research	703143-20180826	8/26/2019
RS-711 Syntron with RS-932 Boost Module (Phase B)	703144	Radian Research	703144-20181024	10/24/2019
RS-711 Syntron with RS-932 Boost Module (Phase C)	703146	Radian Research	703146-20180827	8/27/2019

**Laboratory Technician Signature**



**LAB 223**

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