

## As Left Certificate of Calibration

**Manufacturer:** Radian Research, Inc.  
**Instrument Model:** RD-33-333 Dytronic Portable Standard  
**Serial Number:** 300732  
**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

**Calibration Lab Name:** Radian Research, Inc.  
**Calibration Lab Address:** 3852 Fortune Drive; Lafayette, IN 47905  
**Calibration Date:** 6-Nov-19  
**Report Issue Date:** 14-Nov-19

**Environmental Conditions**  
 Temperature: 23°C +/- 2°C  
 Humidity: between 30% and 60%  
 P.O.Number: E-1988 / Wire Transfer  
 RMA / Certificate Number: RO37236

**Physical Condition:** Undamaged

**Radian Research's As-Found Test Results showed this Instrument to be:**

New  In Tolerance  Out of Tolerance  Inoperative  Limited Calibration  Repair Needed

**Radian Research's As-Left Test Results showed this Instrument to be:**

New  In Tolerance  Out of Tolerance  Inoperative  Limited Calibration

This "As Left Certificate of Calibration" Indicates the instrument has been adjusted and calibrated to be within specifications.

When the instrument was first tested in our lab, the results were out of tolerance.

Out of tolerance results are provided in a separate "As Found" report.

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 2.3.7142.30113  
**RS-933 Tool Number:** 9911644

**Standards Used in This Calibration:**

Description	Serial Number(s):	Cal. Source	Cal. Number:	Cal. Due Date:
RS-940A Data Collection Module	933073	Radian Research	933073-20190330	3/30/2020
RS-711 Syntron with RS-932 Boost Module (Phase A)	703236	Radian Research	703236-20190508	5/8/2020
RS-711 Syntron with RS-932 Boost Module (Phase B)	703194	Radian Research	703194-20190423	4/23/2020
RS-711 Syntron with RS-932 Boost Module (Phase C)	703226	Radian Research	703226-20190327	3/27/2020

**Laboratory Technician Signature**



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