

Part 15.231, ANSI C63.4 , RSS 210

This is a list of all test equipment used.

Test Equipment list for Honeywell OATS & Conducted Line:

Equipment	Mfg	Model	Cal Date	Cal Due
Spectrum Analyzer	Rohde & Schwarz	FSEA20	10/19/11	10/19/12
Antenna ('Biconilog')	ETS (EMCO)Lindgren	3149	01/21/1G	01/21/1H

PLEASE SEE PAGE 2-HFOR TEST EQUIPMENT TRACEABILITY

If you need any additional information from Honeywell please contact:

Greg Barbato RF Engineer
(Acting for Ken Eskildsen)
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Certificate of Calibration

Issue Date: 10/19/2011



General Calibration, Inc.
2 Mars Court, Boonton, New Jersey 07005
Phone (973) 299-2950 Fax (973) 299-0595

Certificate #: MR-19809
Work Order #: MR504
Customer #: 001464

Performed By:

GENERAL CALIBRATION, INC.

Location of Calibration:

HONEYWELL SECURITY (001464)

2 MARS COURT
BOONTON, NJ 07005

2 CORPORATE CENTER DRIVE
MELVILLE, NY 11747

Equipment Information:

Job No.: 018674
Manufacturer: R&S
Description: SPECTRUM ANALYZER
Department: ALARMNET
Temp./RH: 22 C / 45 %
Cal. Interval: 12 MONTHS
Cal Date: 10/19/2011

Purchase Order:

5247582
Asset Tag No.: 10503
Model Number: FSEA20
Serial Number: DE31589
Inspected By: MR1
Job Title: METROLOGIST
Calibration Result: PASSED
Cal. Due Date: 10/19/2012

Calibration Notes:

Condition: Found In Tolerance and Left In Tolerance

Procedures #GCP: RS FSEA20

Standards Used To Calibrate Equipment

Company	I.D.	Description	Cal. Due Date
GENERAL CALIBRATION	1001	ATTENUATOR	10/26/2011
GENERAL CALIBRATION	332	FREQUENCY COUNTER	04/20/2012
GENERAL CALIBRATION	446	SYNTHESIZED SWEEPER	01/05/2012
GENERAL CALIBRATION	690	POWER METER	04/26/2012
GENERAL CALIBRATION	774	POWER SENSOR	07/08/2012
GENERAL CALIBRATION	967	FUNCTION GENERATOR	10/05/2012

This is to certify that General Calibration, Inc. is A2LA accredited and that its calibration system is in compliance with ISO/IEC 17025-2005, ANSI NCSL Z540-1, ANSI NCSL Z540-3, and ISO 9001:2008. The test limits stated in the report correspond to the published specifications of the equipment, at the points tested. Calibration of standards, reference standards and Intermediate standards in this calibration have been certified traceable to the SI Units of measurement. Any accredited calibration under our A2LA scope of accreditation is denoted with A2LA accredited symbol on the calibration certificate. If the certificate includes any unaccredited items calibrated, they are clearly marked as unaccredited calibration.

Best Uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. The results documented in this certificate relate only to the item(s) calibrated or tested.

Approved By Richard D. Miller
General Calibration, Inc. - Q. A. Manager

ELECTRO-METRICS

CERTIFICATE # 20971

DATE: 06/27/2012

ELECTRO - METRICS CERTIFICATE OF CONFORMANCE

MODEL: ETS-3149 Antenna, Biconicalog

SERIAL # 29390

ID # 11243

CUSTOMER: HONEYWELL SECURITY.

ADDRESS: 2 CORPORATE CENTER DRIVE, MELVILLE, NY 11747

P.O.# 560404

LINE: 1

The above equipment has been calibrated and is within the manufacturer's published limit of error. Calibration is traceable to the National Institute of Standards & Technology. Calibration has been accomplished on the above-named instrument by comparison with some or all of the following standards that are maintained by Electro-Metrics or by an authorized facility.

This certificate shall not be altered or reproduced, except in full, without written approval of Electro-Metrics.

- **CONDITION OF EQUIPMENT RECEIVED:** In-Tolerance
- **DATE CALIBRATED:** 06/27/12
- **CALIBRATION RANGE/DISTANCE:** 26 MHz to 6 GHz/3 Meter
- **CALIBRATION ORIENTATION:** Horizontal/Vertical
- **ENVIRONMENTAL CONDITIONS:** TEMPERATURE 77 Degrees F HUMIDITY 68%
- **CALIBRATION PROCEDURE:** TS-J801
- **CALIBRATION DUE DATE:** 06/27/13
- **CALIBRATION STANDARDS:** ANSI C63.5 (1988)
- **COMMENTS/REMARKS:** None

<u>TYPE</u>	<u>DESCRIPTION</u>	<u>TRACE</u>	<u>ASSET#</u>
FREQUENCY	EIP 371 Frequency Counter	55E46	B#2476
A.C./D.C.	Keithley 195 System DMM	55E45	B#0093
RF AMPLITUDE	Boonton 9200A RF Millivoltmeter	8P673	B#0246
ATTENUATION	JFW Model 50R-079 Attenuator	280687	B#0405
IMPULSE	Electro-Metrics CIG-25	811/268663-03	B#2772
POWER	HP 435B Powermeter	5194746	B#0077
POWER	HP 8484A Sensor	5161373	B#0078
POWER	HP 8485A Sensor	5175560	B#0114
ENVIRONMENTAL	Lufft Model HTAB169B Hygrometer	204709	B#2790

Certified by: 

Quality Assurance