

ELECTRO-METRICS

CERTIFICATE # 20037

DATE: 04/20/11

ELECTRO -METRICS CERTIFICATE OF CONFORMANCE

MODEL: RGA-60

SERIAL # 3127

ID # 02973 (91439)

CUSTOMER: HONEYWELL SECURITY.

ADDRESS: 2 CORPORATE CENTER DRIVE, MELVILLE, NY 11747

P.O.# 517531

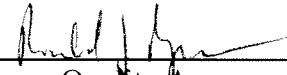
LINE: 1

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:** 04/20/11
- **CALIBRATION RANGE/DISTANCE:** 1 GHz to 18 GHz/3 Meter
- **CALIBRATION ORIENTATION:** Horizontal/Vertical
- **ENVIRONMENTAL CONDITIONS:** TEMPERATURE 60 Degrees F HUMIDITY 44%
- **CALIBRATION PROCEDURE:** TS-800
- **CALIBRATION DUE DATE:** 04/20/12
- **CALIBRATION STANDARDS:** ARP958A
- **COMMENTS/REMARKS:** None.

| <u>TYPE</u> | <u>DESCRIPTION</u> | <u>TRACE</u> | <u>ASSET#</u> |
|---------------|---------------------------------|---------------|---------------|
| FREQUENCY | EIP 371 Frequency Counter | 8P674 | B#2476 |
| A.C./D.C. | Keithley 195 System DMM | 8P672 | 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 | 4100046 | B#0077 |
| POWER | HP 8484A Sensor | 4157498 | B#0078 |
| POWER | HP 8485A Sensor | 4183141 | B#873292 |
| ENVIRONMENTAL | Lufft Model HTAB169B Hygrometer | 182206 | B#2790 |

Certified by: 

Quality Assurance

Certificate of Calibration

Issue Date: 5/11/2011



General Calibration, Inc.

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

Certificate #: MR-18671

Purchase Order: 5247582

Work Order #: MR450

Customer #: 001464

Performed By:

GENERAL CALIBRATION, INC.
2 MARS COURT

Location of Calibration:

HONEYWELL SECURITY (001464)
2 CORPORATE CENTER DRIVE

BOONTON, NJ 07005

MELVILLE, NY 11747

Equipment Information

Job No.: 096188

Asset Tag No.: 10131

Manufacturer: HP

Model Number: 11947A

Description: TRANSIENT LIMITER

Serial Number: 3107A02782

Department:

Inspected By: MR1

Temp./RH: 22 C / 45 %

Job Title: METROLOGIST

Cal. Interval: 12 MONTHS

Calibration Result: PASSED

Cal Date: 05/11/2011

Cal. Due Date: 05/11/2012

Calibration Notes

Condition: Found In Tolerance and Left In Tolerance

Procedures #GCP: HP 11947A

Standards Used To Calibrate Equipment

| Company | I.D. | Description | Cal. Due Date |
|---------------------|------|----------------------------|---------------|
| GENERAL CALIBRATION | 1031 | SYNTHESIZED SWEEPER, 26GHZ | 04/06/2012 |
| GENERAL CALIBRATION | 503 | SPECTRUM ANALYZER | 04/12/2012 |
| GENERAL CALIBRATION | 688 | LEVEL GENERATOR | 03/14/2012 |

The above instrument has been checked and calibrated against the above working standard(s) which are traceable to the NIST. The test limits stated in the report correspond to the published specifications of the equipment, at the points tested. Also, the collective uncertainties of measurement standards do not exceed 25% of the tolerance of the characteristics being calibrated, where possible. The metrology procedures utilized conform to and satisfy the requirements set forth in ANSI/NCSL Z540-1-1994, 10 CFR part 21, ISO 9001-2008, ISO 10012-2003, and MIL-STD 45662A.

Approved By

General Calibration, Inc. - Q. A. Manager

Certificate of Calibration

Issue Date: 10/20/2011



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

Certificate #: MR-19821
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.: 076905

Manufacturer: COM-POWER

Description: LISN

Department: DAVID KALMUS

Temp./RH: 22 C / 45 %

Cal. Interval: 12 MONTHS

Cal Date: 10/20/2011

Purchase Order: 5247582

Asset Tag No.: 11262

Model Number: LI-115

Serial Number: 241050

Inspected By: MR1

Job Title: METROLOGIST

Calibration Result: PASSED

Cal. Due Date: 10/20/2012

Calibration Notes:

Condition: Found In Tolerance and Left In Tolerance

Procedures #GCP: COM-POWER LI-115

Standards Used To Calibrate Equipment

| Company | I.D. | Description | Cal. Due Date |
|---------------------|------|--------------------|---------------|
| GENERAL CALIBRATION | 418 | DIGITAL MULTIMETER | 01/03/2012 |
| GENERAL CALIBRATION | 700 | DIGITAL MULTIMETER | 02/10/2012 |

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.

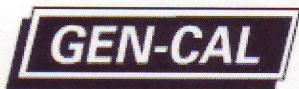
Best Uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k=2$. The results documented in this certificate relate only to the item(s) calibrated or tested.

Approved By

Robert D. McEwen
General Calibration, Inc. - Q. A. Manager

Certificate of Calibration

Issue Date: 10/20/2011



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

Certificate #: MR-19820
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.: 076903
Manufacturer: GIGA-TRONICS
Description: POWER METER
Department:
Temp./RH: 22 C / 45 %
Cal. Interval: 12 MONTHS
Cal Date: 10/20/2011

Purchase Order: 5247582

Asset Tag No.: 11297
Model Number: 8541
Serial Number: 1826159
Inspected By: MR1
Job Title: METROLOGIST
Calibration Result: PASSED
Cal. Due Date: 10/20/2012

Calibration Notes:

Condition: Found In Tolerance and Left In Tolerance

Procedures #GCP: GIGATRONICS 8541

Standards Used To Calibrate Equipment

| Company | I.D. | Description | Cal. Due Date |
|---------------------|------|---------------------|---------------|
| GENERAL CALIBRATION | 446 | SYNTHESIZED SWEEPER | 01/05/2012 |
| GENERAL CALIBRATION | 650 | POWER SPLITTER | 12/10/2011 |
| GENERAL CALIBRATION | 665 | MEASURING RECEIVER | 04/13/2012 |
| GENERAL CALIBRATION | 813 | SENSOR MODULE | 03/14/2012 |

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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

Robert A. McAre
General Calibration, Inc. - Q. A. Manager

Certificate of Calibration

Issue Date: 10/20/2011



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

Certificate #: MR-19819
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.: 076901
Manufacturer: GIGA-TRONICS
Description: POWER SENSOR
Department:
Temp./RH: 22 C / 45 %
Cal. Interval: 12 MONTHS
Cal Date: 10/20/2011

Purchase Order: 5247582

Asset Tag No.: 11298
Model Number: 80353A
Serial Number: 1821104
Inspected By: MR1
Job Title: METROLOGIST
Calibration Result: PASSED
Cal. Due Date: 10/20/2012

Calibration Notes:

Condition: Found In Tolerance and Left In Tolerance

Procedures #GCP: GIGATRONICS 80353A

Standards Used To Calibrate Equipment

| Company | I.D. | Description | Cal. Due Date |
|---------------------|------|---------------------|---------------|
| GENERAL CALIBRATION | 446 | SYNTHESIZED SWEEPER | 01/05/2012 |
| GENERAL CALIBRATION | 650 | POWER SPLITTER | 12/10/2011 |
| GENERAL CALIBRATION | 665 | MEASURING RECEIVER | 04/13/2012 |
| GENERAL CALIBRATION | 813 | SENSOR MODULE | 03/14/2012 |

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Approved By

General Calibration, Inc. - Q. A. Manager