User's Manual

Installation, Operation and Maintenance

Custom Microwave System for DB

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Revision Sheet

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Rev. 00	27-FEB-2018	Released
Rev. 01	04-APR-2018	Added section 4.4 (power measurement)

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***INFO**: The reader should take note of the information provided, which may contain helpful comments, suggestions or references to other sections, chapters, or documents.*

***CAUTION**: The reader should exercise care to avoid actions that might result in equipment damage or loss of data.*

***WARNING**: A dangerous situation exists that could cause bodily injury or death. All personnel must be aware of the hazards involved with high voltage electrical circuitry and high power microwave devices.*

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WARNING

The microwave system described in this document can produce a microwave field that is potentially hazardous to operating personnel. It must never be connected or operated in a manner that allows a field exceeding 10 milliwatts per square centimeter to be generated at a location accessible to operating personnel. Installation, operation and service must be performed by qualified personnel who are properly trained for this equipment. Contact Gerling Consulting, Inc. for technical support prior to installation and/or operation of these units if there is any question or concern about microwave leakage.

All waveguide flange and electrical cable connections throughout the system must be secure prior to operation. Never operate the microwave generator without a properly rated absorbing load attached. To ensure safe operation and prevent microwave leakage, the equipment must be periodically inspected and maintained as required or recommended.

The equipment described in this document is classified as industrial, scientific and medical (ISM) radio-frequency equipment and covered by EN55011 standard for emissions under Group 2 (microwave generators), Class A (industrial environment). This equipment shall not be used in any residential, commercial or light-industrial environment. When properly installed, this equipment complies with the limits for electromagnetic disturbance in accordance with EN55011, Group 2, Class A.

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