



# MAGNUM ULTRASONIC GENERATORS TYPES GM AND GMR



GM(R)-1K

POWER SONICS latest ultrasonic generators uses IGBT technology to replace the rugged, now obsolete, PSCR built for many years. These new designs are interchangeable with previous models and add diagnostic capabilities and features not previously available.

## FEATURES

- TYPES GM AND GMR POWER GENERATOR IGBT TECHNOLOGY**

Types GM (used with “flat” transducers) and GMR (used with “radial” transducers) generators are our newest power supplies and use modern IGBT technology. They are designed to be highly self protective and self diagnostic.

The solid state circuitry utilizes active power devices which have higher peak current and voltage ratings over previous power devices. Circuit design features match the generator and output signal to various applications and operate effectively in less than ideal conditions. An integral, cleanable air filter is standard.

- INTERCHANGEABLE WITH POWER SONICS, WESTINGHOUSE, AND PILLAR MAGNETOSTRICTIVE EQUIPMENT**

The entire line of Power Sonics generators has been designed to be directly interchangeable with equipment previously manufactured by Westinghouse Electric Corp. and Pillar.

- FRONT PANEL DISPLAY**

The front panel displays multiple lights which indicate operational and trip conditions of the generator. Green LEDs indicate ON conditions while Red LEDs indicate trip conditions. The status of the lights directs the user to the probable cause of the current condition through instructions supplied with the generator.

- OPERATIONAL LEDs**

AC Power On (Green) - Indicates the line circuit breaker is turned on and 115 Volts is available for control and power.

Ultrasonic Power On (Green) - Indicates the generator is supplying power to the transducer and the transducer and power circuits are functioning properly.

- DIAGNOSTIC LEDs**

Generator On (Green) - Indicates the IC control has supplied a signal to turn on the rectifier and high frequency circuit.

Control Power On (Green) - Indicates the control voltage is operational and is at the proper voltage level.

Over Voltage (Red) - Indicates a fault has occurred in the high frequency circuit of the generator.

Over Current (Red) - Indicates the AC line current is too high from either a component or transducer problem.

Over Temperature (Red) - Indicates the temperature of the heat sink is too high for proper operation.

- OPTIONAL FEATURES**

A factory installed Microcontroller based timer with start/stop and reset feature.

