Introduction

The RF303 Electrosurgical Analyzer, hereafter referred to as the "Analyzer", tests electrosurgical units (ESU) for generator output and high frequency (HF) leakage. It is compatible with both isolated and earth/ground-referenced types of electrosurgical units. You can test both the high-level monopolar and the low-level bipolar ESU outputs using this versatile Analyzer.

The Analyzer uses a precision high-voltage capacitive attenuator to sample the applied ESU signal. You can use this attenuated HF voltage and the selected test load resistance value to derive the true-rms values of both current and wattage.

The Analyzer internal test load simulates the range of resistance encountered during surgical procedures. Additionally, a second, 200 ohm (Ω) auxiliary test load resistance is built-in to analyze earth/ground-referenced ESUs as specified in the International Standard IEC 601-2-2.

The exclusive use of non-conductive, high-impact plastic case material minimizes extraneous high frequency leakages within the Analyzer.

General Safety Information

This Analyzer complies with safety and technical requirements described in the following directives:

- UL 3101-1
- CAN/CSA C22.2 No. 1010.1 (1992)
- EC 73/23/EEC EN 61010–1
- ANSI / AAMI HF–18-1986
- IEC 601-2–2
- IEC 1289-1
- IEC 1289-2

A **Warning** identifies hazardous conditions and actions that could cause bodily harm or death.

A **Caution** identifies conditions and actions that could damage the Analyzer, the equipment under test, or cause permanent loss of data.