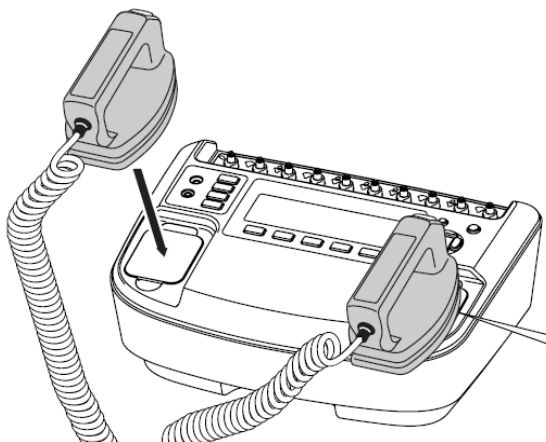


ELECTROMAGNETIC COMPATIBILITY TEST REPORT

for the Fluke Biomedical Impulse 7000 Defibrillator/Pacer Analyzers



The Fluke Biomedical Impulse 7000 was tested to the following standards
at the EMC laboratories of Fluke Corporation.
6920 Seaway Blvd Everett WA 98203

**Update: Sagebrush EMCTestReport_24Jul'07 to include Radiated Immunity
from 1.4GHz to 2.7GHz.**

**EN 61326-1:2006 part EN61000-4-3
Class A Immunity**

The Fluke Biomedical Impulse 7000 passes test requirements for equipment used for:

<input type="checkbox"/> Industrial Locations	<input type="checkbox"/> Controlled EM Environments	<input type="checkbox"/> Portable Equipment
<input checked="" type="checkbox"/> Non-Domestic Use (Class A)		<input type="checkbox"/> Domestic Use (Class B)

Class A equipment is equipment suitable for use in all establishments other than domestic and those directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.

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Date: 04 Jun 2012

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Test Engineer

Date: 05 Jun 2012

IV. Test Results

The Fluke Biomedical Impulse 7000 Defibrillator/Pacer Analyzers was tested to the following Electromagnetic Compatibility [EMC] requirements:

Adapted from EN 61326-1:2006 Table 1

Basic immunity test requirements

Port	Phenomenon	Basic standard	Test value	Minimum Criteria	Pass/Fail
Enclosure	EM Field	EN 61000-4-3	3 V/m (80 MHz to 1 GHz)	A	Pass
	EM Field	EN 61000-4-3	3 V/m (1,4 GHz to 2 GHz)	A	Pass
	EM Field	EN 61000-4-3	1 V/m (2,0 GHz to 2,7 GHz)	A	Pass

V. Test Plan

1. Configuration of EUT during testing:

a. General

- i. Manufacturer / Model: Fluke Biomedical Impulse 7000
- ii. Equipment Life Cycle: ○ Prototype ○ Pre-Production ● Production
- iii. Equipment Power Supply: ○ Battery ○ AC Powered ○ Battery or AC
- iv. Serial Number(s) of EUT tested: HUMBOLDT & 1601023
- v. Clocks / Oscillators (including synthesized clocks):
 the Sagebrush prototype currently being tested has two crystal-based oscillators, with fundamental frequencies of 30MHz (DSP clock, on the -4001 main board) and 7.3728MHz (AVR clock, on the -4002 display board).
 There are also various switching supplies with non-crystal based oscillators that will wander around in frequency.

Digital Power Supply	Wanders, about 100KHz	Discontinuous	-4001 Main board
Analog Power Supply	500KHz	Relatively stable	-4001 Main board
Isolated I/O Supply	350KHz	Relatively stable	-4001 Main board
LCD Bias Supply	Wanders 80KHz to 160KHz	Discontinuous	-4002 Display board
LCD Back Light Supply	230KHz	Relatively stable	-4002 Display board
Battery Fast Charge	85.7KHz	Relatively stable	-4001 Main board

b. Composition of EUT: Standard

c. Assembly of EUT: Standard

d. EUT I/O Ports:

Back Panel:

USB-A port

Scope output synthesized DAC output of input waveform (BNC)

Scope output High Level ECG (BNC)

Battery Charger/Eliminator input

Top Panel:

ECG outputs X 10

Pacer Input