

# ELECTROMAGNETIC COMPATIBILITY TEST CERTIFICATE



## for the Fluke 83V, 87V and 88V Digital Multimeter



The Fluke 83V, 87V, and 88V was tested to the following standard at the EMC laboratories of Fluke Corporation.

### EN 61326-1 :2006 Class B Emissions and Immunity

The Fluke 83V, 87V and 88V pass test requirements for equipment used for:

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

*Class B equipment* is equipment suitable for use in domestic establishments and in establishments directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.

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Date: Nov 3, 2008

**Approved by:**

- Product Evaluation Manager
- Division Engineering Manager

## I. Test Results

The Fluke 87-V Digital Multimeter was tested to the following Electromagnetic Compatibility [EMC] requirements:

Adapted from CISPR 11 Table 2b  
**Emissions Limits for Class B Equipment**

Port	Frequency MHz	Limits	Standard	Pass/Fail	
Enclosure	30 to 230	30dB (uV/m) quasi peak, measured at 10 meters.	CISPR 11	Pass <sup>1</sup>	
	230 to 1000	37dB (uV/m) quasi peak, measured at 10 meters.		Pass <sup>1</sup>	
AC mains	0 to 0.002	As specified in 61000-3-2 and 61000-3-3.	61000-3-2	N/A	
			61000-3-3	N/A	
	0.15 to 0.5	66dB (uV/m) to 56dB (uV/m) quasi peak, 56dB (uV/m) to 46dB (uV/m) average. Limits decrease linearly with log. of frequency.	CISPR 11	N/A	
				0.5 to 5.0	N/A
				5 to 30	N/A

1. Initial Report: 87V\_EMCTestReport.doc

Portable test & measurement equipment that is not capable of operating while being charged is tested to the following immunity requirements:

Adapted from IEC 61326-1:2005 Table A.1  
**Immunity test requirements for portable test and measurement equipment**

Port	Phenomenon	Basic standard	Test value	Criteria	Pass/Fail
Enclosure	ESD	IEC 61000-4-2	4 kV/8 kV contact/air	B	Pass <sup>2</sup>
	EM Field	IEC 61000-4-3	3 V/m (80 MHz to 1 GHz)	A <sup>1</sup>	Pass <sup>2</sup>
	EM Field	IEC 61000-4-3	3 V/m (1,4 GHz to 2 GHz)	A <sup>1</sup>	Pass
	EM Field	IEC 61000-4-3	1 V/m (2,0 GHz to 2,7 GHz)	A <sup>1</sup>	Pass

1. See performance criteria definitions on following page.  
 2. Initial Report: 87V\_EMCTestReport.doc

