

TEST RESULT SUMMARY

EUROPEAN STANDARD EN 61000-3-2: 2000

EUROPEAN STANDARD EN 61000-3-3: 1995 + A1: 2001

MANUFACTURER'S NAME	Digi International
NAME OF EQUIPMENT	Portserver TS 4 MEI
MODEL NUMBER(S)	55001054-02 (50000836-03) Rev 2P
MANUFACTURER'S ADDRESS	1101 Bren Road East Minnetonka, MN 55343
TEST REPORT NUMBER	NC302210.1
TEST DATE	08 May 2003

According to testing performed at TÜV Product Service Inc, the above-mentioned unit is in compliance with the electromagnetic compatibility requirements defined in European Standards EN 61000-3-2: 2000 and EN 61000-3-3: 1995 + Amendment A1: 2001.

It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics. Any modifications necessary for compliance made during testing on the above mentioned date(s) must be implemented in all production units for compliance to be maintained.

TÜV Product Service Inc, as an independent testing laboratory, declares that the equipment tested as specified above complies with the requirements of European Standard EN 61000-3-2: 2000: "Electromagnetic Compatibility – Part 3-2: Limits - Limits for Harmonic Current Emissions (Equipment Input Current ≤ 16 Amps Per Phase)", and with European Standard EN 61000-3-3: 1995: "Electromagnetic Compatibility – Part 3-3: Limits - Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Public Low-Voltage Supply Systems for Equipment with Rated Current ≤ 16 Amps Per Phase and not Subject to Conditional Connection" + Amendment A1: 2001.

Date: 15 May 2003

Location: New Brighton MN
USA

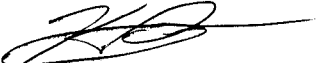



Kevin Rose
EMC Technician

Not Transferable





Curt D Propson
EMC Engineer

Product:	50000836-12-03	May 08 2003 12:41pm Page 1 of 1
Serial no:	0001	
Description:	TS4 MEI	
Result Name:	2210FH.01	
Voltech IEC1000-3 Windows Software 3.02.03		Test Date: May 08 2003 11:51am
Type of Test:	Fluctuating Harmonics Test - Worst Case Table (1995)	
Power Analyzer:	Voltech PM3000A v1.71 s/n 6802	
AC Source:	Mains / Manual Source	
Overall Result:	<p>PASS</p>  	

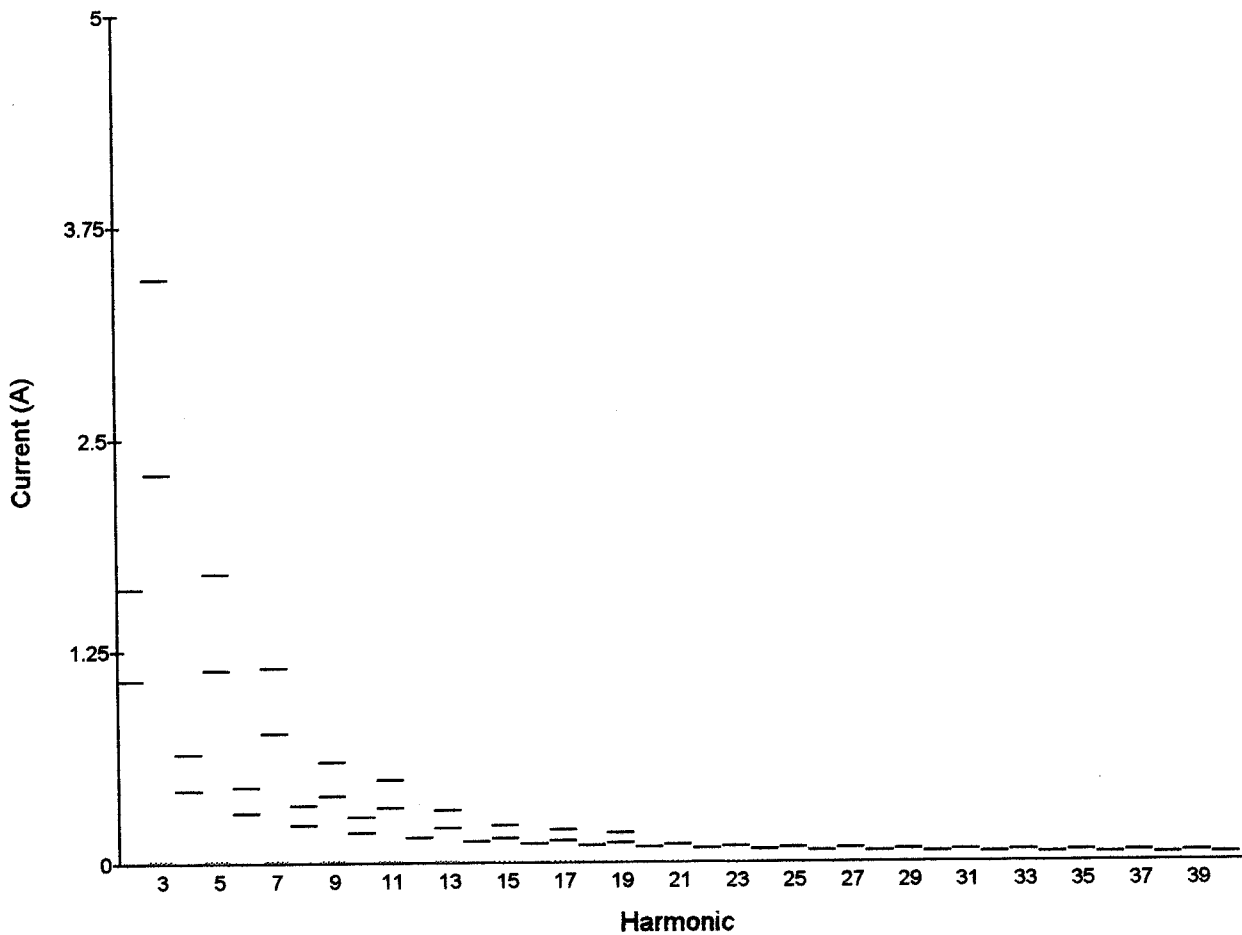
Class	Class A
Class Multiplier	1



Harm	Reading	Limit 1	Limit 2	<L1 >L1 →L1 >L2	Result	Harm	Reading	Limit 1	Limit 2	<L1 >L1 →L1 >L2	Result
2	0.23mA	1.080A	1.620A		N/A	3	18.43mA	2.300A	3.450A	✓	Pass
4	0.26mA	430mA	645mA		N/A	5	17.70mA	1.140A	1.710A	✓	Pass
6	0.30mA	300mA	450mA		N/A	7	16.67mA	770mA	1.155A	✓	Pass
8	0.25mA	230mA	345mA		N/A	9	15.38mA	400mA	600mA	✓	Pass
10	0.25mA	184mA	276mA		N/A	11	13.86mA	330mA	495mA	✓	Pass
12	0.26mA	153mA	153mA		N/A	13	12.20mA	210mA	315mA	✓	Pass
14	0.24mA	131mA	131mA		N/A	15	10.46mA	150mA	225mA	✓	Pass
16	0.23mA	115mA	115mA		N/A	17	8.71mA	132mA	199mA	✓	Pass
18	0.23mA	102mA	102mA		N/A	19	7.02mA	118mA	178mA	✓	Pass
20	0.20mA	92mA	92mA		N/A	21	5.45mA	107mA	107mA	✓	Pass
22	0.18mA	84mA	84mA		N/A	23	4.04mA	98mA	98mA		N/A
24	0.17mA	77mA	77mA		N/A	25	2.87mA	90mA	90mA		N/A
26	0.14mA	71mA	71mA		N/A	27	2.03mA	83mA	83mA		N/A
28	0.13mA	66mA	66mA		N/A	29	1.60mA	78mA	78mA		N/A
30	0.12mA	61mA	61mA		N/A	31	1.54mA	73mA	73mA		N/A
32	0.12mA	58mA	58mA		N/A	33	1.63mA	68mA	68mA		N/A
34	0.11mA	54mA	54mA		N/A	35	1.68mA	64mA	64mA		N/A
36	0.11mA	51mA	51mA		N/A	37	1.64mA	61mA	61mA		N/A
38	0.11mA	48mA	48mA		N/A	39	1.50mA	58mA	58mA		N/A
40	0.10mA	46mA	46mA		N/A						

- <L1 : Reading is below limit 1.
- >L1 : Reading is above limit 1 for less than 10% of a 2½ minute window.
- L1 : Reading is above limit 1 for more than 10% of a 2½ minute window.
- >L2 : Reading is above limit 2.
- N/A : Harmonic current below 0.6% of rated current or 5mA, whichever is greater, are disregarded.

Product:	50000836-42-03	May 08 2003 12:41pm
Serial no:	0001	Page 1 of 1
Description:	TS4 MEI	
Result Name:	2210FH.01	
Voltech IEC1000-3 Windows Software 3.02.03	Test Date: May 08 2003 11:51am	
Type of Test:	Fluctuating Harmonics Test - Linear Worst Case Bar Chart (1995)	
Power Analyzer:	Voltech PM3000A v1.71 s/n 6802	
AC Source:	Mains / Manual Source	
Overall Result:	<p>PASS</p>  	



Class	Class A
Class Multiplier	1



Product:	50000836-42-03	May 08 2003 12:41pm
Serial no:	0001	Page 1 of 1
Description:	TS4 MEI	
Result Name:	2210FH.01	
Voltech IEC1000-3 Windows Software 3.02.03		Test Date: May 08 2003 11:51am
Type of Test:	Fluctuating Harmonics Test - Source Qualification (1995)	
Power Analyzer:	Voltech PM3000A v1.71 s/n 6802	
AC Source:	Mains / Manual Source	
Overall Result:	 	
PASS		

	Nominal	Measured	Deviation	Allowed Deviation	Result
Supply Voltage	230.00V	231.10V	1.10V	4.60V	Pass
Supply Frequency	50.00Hz	50.01Hz	0.01Hz	0.25Hz	Pass

Harmonic	Reading	Limit	Result	Harmonic	Reading	Limit	Result
2	0.03%	0.20%	Pass	3	0.05%	0.90%	Pass
4	0.02%	0.20%	Pass	5	0.03%	0.40%	Pass
6	0.02%	0.20%	Pass	7	0.01%	0.30%	Pass
8	0.02%	0.20%	Pass	9	0.02%	0.20%	Pass
10	0.02%	0.20%	Pass	11	0.02%	0.10%	Pass
12	0.02%	0.10%	Pass	13	0.02%	0.10%	Pass
14	0.02%	0.10%	Pass	15	0.02%	0.10%	Pass
16	0.01%	0.10%	Pass	17	0.01%	0.10%	Pass
18	0.01%	0.10%	Pass	19	0.02%	0.10%	Pass
20	0.01%	0.10%	Pass	21	0.01%	0.10%	Pass
22	0.02%	0.10%	Pass	23	0.02%	0.10%	Pass
24	0.02%	0.10%	Pass	25	0.01%	0.10%	Pass
26	0.01%	0.10%	Pass	27	0.02%	0.10%	Pass
28	0.01%	0.10%	Pass	29	0.01%	0.10%	Pass
30	0.02%	0.10%	Pass	31	0.02%	0.10%	Pass
32	0.01%	0.10%	Pass	33	0.02%	0.10%	Pass
34	0.01%	0.10%	Pass	35	0.02%	0.10%	Pass
36	0.02%	0.10%	Pass	37	0.02%	0.10%	Pass
38	0.02%	0.10%	Pass	39	0.02%	0.10%	Pass
40	0.02%	0.10%	Pass				

Product: 50000836-42-03		May 08 2003 12:40pm
Serial no: 0001		Page 1 of 1
Description: TS4 MEI		
Result Name: 2210FL		
Voltech IEC1000-3 Windows Software 3.02.03		Test Date: May 08 2003 11:59am
Type of Test: Flickermeter Test - Table		
Power Analyzer: Voltech PM3000A v1.71 s/n 6802		
AC Source: Mains / Manual Source		
Overall Result:	Notes:	
PASS	Measurement method - Voltage	
		
		

	Pst	dc (%)	dmax (%)	d(t) > 3%(ms)
Limit	1.000	3.000	4.000	200
Reading 1	0.074	0.017	0.069	0