



Electrical Fast Transient/Burst per IEC / EN 61000-4-4

Manufacturer:	Aleph Objects Inc	Project Number:	B40815
Customer Representative:	Seth Sinnema	Test Area:	GP 2
Model:	KT-PR0016	S/N:	KT-PR0016-6616
Standard Referenced:	EN55024: 2010	Date:	August 18, 2014
Temperature:	23.9°C	Humidity:	51%
Input Voltage:	230VAC 50Hz	Pressure:	839 mb
Configuration of Unit:	Printing test gcode file off SD card		
Test Engineer:	Mark Novak		

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Voltage (kV)	Polarity		Time (sec)	Injection Type	L 1	L 2	L 3	N	P E	Comments	Criteria Met	Pass / Fail
	+	-										
1.0	x		60	CDN	x					AC Unit quit printing , then it tried to reboot. LCD froze when encoder switch on LCD panel was pressed. Unit required a hard restart.	C	Fail
1.0		x	60	CDN	x					Garbled the LCD . Required a hard reboot.	C	Fail
1.0	x		60	CDN		x				Unit froze, was able to continue operation without having to do a hard reboot.	C	Fail
1.0		x	60	CDN		x				Froze unit needed a hard Restart.	C	Fail
1.0	x		60	CDN					x	Unit rebooted a couple of times and was able to continue. Did not require a hard reboot.	C	Fail
1.0		x	60	CDN					x	Froze unit needed a hard Restart	C	Fail
1.0	x		60	CDN	x	x			x	Unit rebooted a couple of times and was able to continue. Did not require a hard reboot.	C	Fail
1.0		x	60	CDN	x	x			x	Froze unit needed a hard Restart	C	Fail



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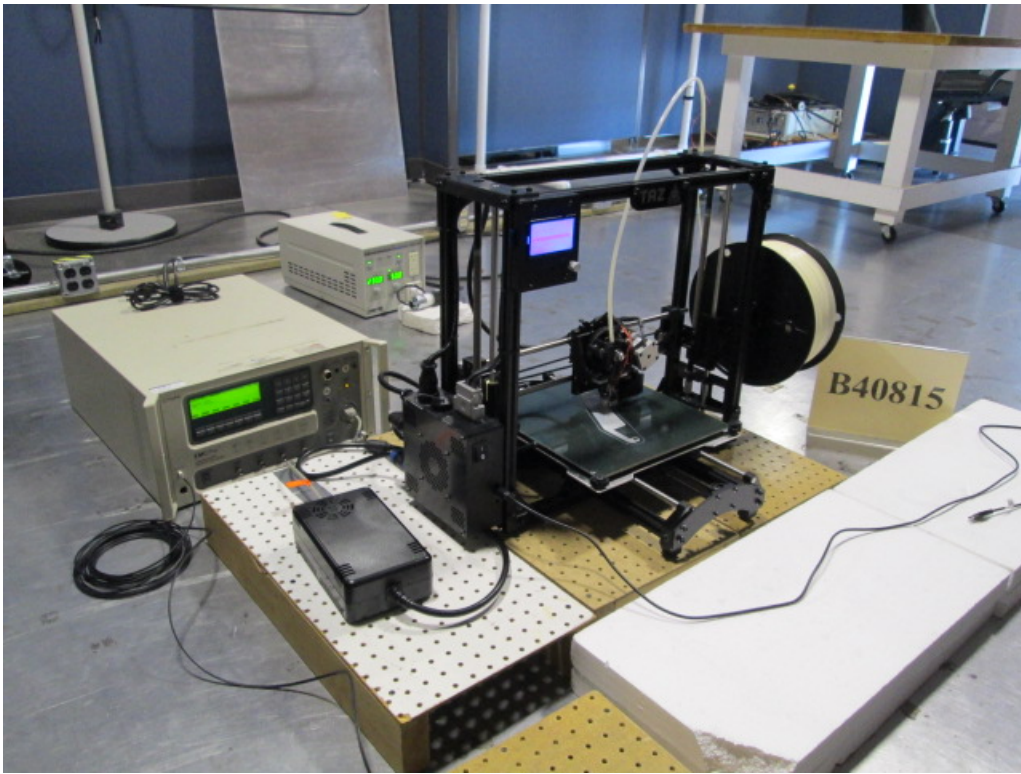


Figure C1. Electrical Fast Transient Test Setup



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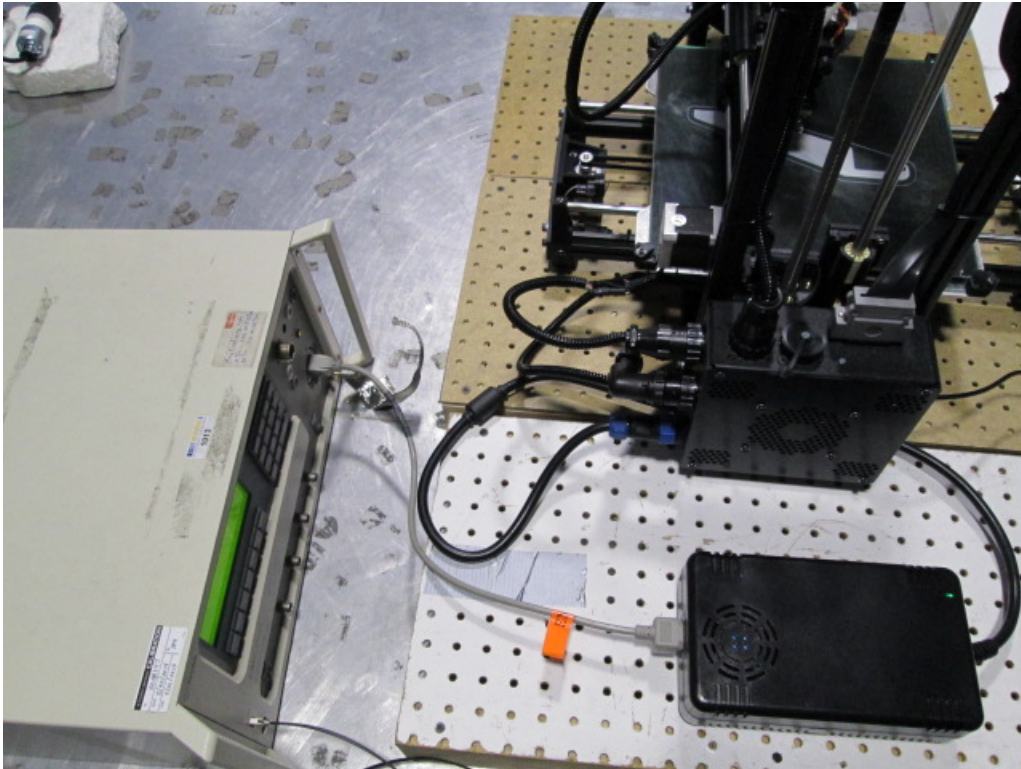


Figure C2. Electrical Fast Transient Test Setup – AC Mains



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Test Equipment List

ID Number	Manufacturer	Model #	Serial #	Description	Cal Date	Cal Due
1013	KeyTek	EMC Pro	0008347	Advanced EMC Immunity Tester	05/20/2014	05/20/2015
1372	Tektronix	TDS2002B	C103489	Oscilloscope, 60 MHz, 2-channel	01/05/2014	01/05/2015
1550	California Instruments/A metek	1251P	1423A05346	AC Power Supply	NA	NA
1184	KeyTek	CEWare32	NA	KeyTek EMCPro Control Software for EFT, Surge, H-F	NA	NA
1536	Extech Instruments	445715	Z315811	Hygro-Thermometer	03/21/2014	03/21/2015