

9/12/2019 2:52 PM

- TEST REPORT-

Immunity to EMC Pulses

Customer	
Company name:	Campbell Scientific, Inc.
Address:	815 West 1800N North Logan, UT. 84321- 1784 USA

Equipment tested	
Model:	
Description:	
Serial Number:	

Test specification:			
Standard :	Level	Criteria	Result
IEC/EN61000-4-2	1	A	PASS or FAIL
IEC/EN61000-4-4	2	B	
IEC/EN61000-4-5	3	C	
IEC/EN61000-4-11	4	D	

Description of the criteria:	
Criteria	Description
A	normal performance;
B	temporary loss of function or temporary degradation of performance not requiring an operator;
C	temporary loss of function or temporary degradation of performance requiring an operator;
D	loss of function with permanent damage to equipment (which means failing the test).

Tested by: Name: Greg Beveridge
 Title: QC/EMC Test Technician

Date: 9/12/2019

Signature:

Equipment Information

Main equipment:		
Manufacturer	Type	Serial Nr
Teseq	NSG 3040	1771

Modules:					
Manufacturer	Type	Serial No.	Version / FW	Calibration date	Certificate No.
Teseq	WIN 3000	0219-0-0100-0000-4A2E-F4D7-FC0C-5DDD	1.3.2	---	---
Teseq	MCR 3000	219	0002.01	---	---
Teseq	SUI 3000	---	02.00	---	---
Teseq	CDM 3041-C	93	0002.01	12/20/2010	NA
Teseq	PQM 3403	122	0002.01	12/20/2010	H40301225110
Teseq	HVM 3040	107	0002.01	---	---
Teseq	CWM 3450	117	0002.01	12/20/2010	H45001175110
Teseq	FTM 3425	152	0002.01	12/20/2010	H42501525110
Teseq	INA 6502	147	0002.01	12/23/2010	H50201475110

Manual or additional Equipment :					
Manufacturer	Type	Serial Nr	Version/FW	Calibration date	Certificat Nr:
Teseq	CDN 163				
Teseq	CDN 3083				
Teseq	Coil				
Teseq	VAR 6503				

Settings:

EUT supply voltage Uin used for 100% reference value: 230 V
 Measured EUT Supply Voltage: ---
 Measured EUT Supply Frequency: 0 Hz
 EUT Power Status on EUT Fail: Off
 Test Action on EUT Fail: Stop
 EUT Power Status on Interlock: On

Descriptions or Explanation:

Environmental Conditions:		
Temperature	Humidity	Pressure
68°	20%	29.9inHg

Test Results

Combination Wave:

C:\Program Files (x86)\Teseq AG\WIN 3000\UserTests\500V-4KV_2ohm_500Vsteps_

One conductor through jacket – PFA cable:

Time	Volt	Polarity	Impedance	Phase	Repetition Time	Step Duration	Coupling	Status
9/12/2019 2:00:42 PM	1000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed
9/12/2019 2:10:52 PM	2000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed
9/12/2019 2:20:02 PM	4000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed

One conductor through jacket – PFA cable

Time	Volt	Polarity	Impedance	Phase	Repetition Time	Step Duration	Coupling	Status
9/12/2019 2:32:11 PM	1000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed
9/12/2019 2:42:21 PM	2000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed
9/12/2019 2:51:32 PM	4000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed

One conductor through jacket – PFA cable

Time	Volt	Polarity	Impedance	Phase	Repetition Time	Step Duration	Coupling	Status
9/12/2019 3:03:10 PM	1000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed
9/12/2019 3:13:20 PM	2000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed
9/12/2019 3:22:31 PM	4000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed

All conductors through jacket – PVC cable

Time	Volt	Polarity	Impedance	Phase	Repetition Time	Step Duration	Coupling	Status
9/12/2019 3:41:33 PM	1000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed
9/12/2019 3:51:43 PM	2000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed
9/12/2019 4:00:53 PM	4000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed

All conductors through jacket – PFA cable

Time	Volt	Polarity	Impedance	Phase	Repetition Time	Step Duration	Coupling	Status
9/12/2019 4:13:17 PM	4000 V	Alt	2 Ω	---	60 s	10 Pulses	Surge Output	Passed