

**Prüfurdkunde - Test Certificate****CM-8820 CT-Adapter 3xl 5A/LoPo****6MF28820AA00/BB****CM-8820 CT-Adapter 3xl 5A/LoPo****6MF28820AA00/BB****Elektrische Sicherheit / Isolation - Electrical safety / Isolation**

Prüfung - Test: Sicherheitsbestim. - Safety requirements	Datum - Date: 19.11.15
Norm - Standard: IEC 61010-1:2010	Protokoll - Protocol: GC8 TÜV_IT15-124
Prüfung - Test: Isol. Wechselfpg. - Dielectric test	Datum - Date: 28.05.15
Norm - Standard: IEC 61010-1:2010	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Isol. Stoßspg. - Impulse voltage test	Datum - Date: 28.05.15
Norm - Standard: IEC 61010-1:2010	Protokoll - Protocol: 6MF28_IO_TUEV15-163

**Elektromagnetische Verträglichkeit - Electromagnetic compatibility**

Prüfung - Test: Imm. ged.Sinus Schw. - Imm. Ring waves	Datum - Date: 28.05.15
Norm - Standard: IEC 61000-4-12:2006	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Störfeldstärke - Emission	Datum - Date: 28.05.15
Norm - Standard: CISPR 22:2008	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Imm. ESD - ESD immunity	Datum - Date: 28.05.15
Norm - Standard: IEC 61000-4-2:2008	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Imm. HF-Feld - EM field immunity	Datum - Date: 28.05.15
Norm - Standard: IEC 61000-4-3:2006	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Imm. Burst - Burst immunity	Datum - Date: 28.05.15
Norm - Standard: IEEE C 37.90.1:2012	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Imm. Burst - Burst immunity	Datum - Date: 28.05.15
Norm - Standard: IEC 61000-4-4:2012	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Imm. Surge 1,2/50 - Surge imm. 1,2/50µs	Datum - Date: 28.05.15
Norm - Standard: IEC 61000-4-5:2005	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Imm. HF induziert - Cond. dist. immunity	Datum - Date: 28.05.15
Norm - Standard: IEC 61000-4-6:2013	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Imm. Magnetfeld 50Hz - HF 50Hz immunity	Datum - Date: 28.05.15
Norm - Standard: IEC 61000-4-8:2009	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Imm. Magnetfeld Puls - Magn. pulse immunity	Datum - Date: 28.05.15
Norm - Standard: IEC 61000-4-9:1993	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Imm. 1MHz gedämpft - Oscillatory waves	Datum - Date: 28.05.15
Norm - Standard: IEC 61000-4-18:2006	Protokoll - Protocol: 6MF28_IO_TUEV15-163
Prüfung - Test: Imm. comm mode dist - Imm. comm mode dist	Datum - Date: 28.05.15
Norm - Standard: IEC 61000-4-16:1998	Protokoll - Protocol: 6MF28_IO_TUEV15-163

**Umweltprüfungen - Environmental testing**

Prüfung - Test: Environm. conditions - Environm. conditions	Datum - Date: 19.01.15
Norm - Standard: IEC 60870-2-2:1996	Protokoll - Protocol: 6MF28_IO_AIT_0515VIB

## Prüfurkunde - Test Certificate

**CM-8820 CT-Adapter 3xl 5A/LoPo****6MF28820AA00/BB****CM-8820 CT-Adapter 3xl 5A/LoPo****6MF28820AA00/BB**

Prüfung - Test: Klima - Climatic test	Datum - Date: 02.03.15
Norm - Standard: IEC 60068-2-x:	Protokoll - Protocol: 6MF28_IO_AIT_782_US
Prüfung - Test: Fc: Schwingen - Vibrations	Datum - Date: 19.01.15
Norm - Standard: IEC 60068-2-6:2007	Protokoll - Protocol: 6MF28_IO_AIT_0515VIB
Prüfung - Test: Fc: Schwingen - Vibrations	Datum - Date: 19.01.15
Norm - Standard: IEC 60068-3-3:1991	Protokoll - Protocol: 6MF28_IO_AIT_0515VIB
Prüfung - Test: Ea: Schock - Shock	Datum - Date: 19.01.15
Norm - Standard: IEC 60068-2-27:2008	Protokoll - Protocol: 6MF28_IO_AIT_0515VIB
Prüfung - Test: Eb: Dauerschock - Bump	Datum - Date: 19.01.15
Norm - Standard: IEC 60068-2-27:2008	Protokoll - Protocol: 6MF28_IO_AIT_0515VIB

Der Prüfgegenstand hat die Prüfungen bestanden. Nach Abschluss der Prüfungen waren die Eigenschaften unverändert und der Prüfgegenstand voll funktionsfähig.

The equipment has successfully passed the type test. The equipment did not show any changes and was fully in order subsequent to these tests.

**Siemens AG Österreich**RC-AT EM Digital Grid Products  
Development

Wien - Vienna, 30.11.2015

Page 2 of 2

**Prüfer - Tested by:**  
**Schachinger Michael**  
Name / Unterschrift - Signature  
Date: 2015.11.30 14:07:02 +01'00'

**Geprüft - Reviewed by:**  
**i.A. Stern Peter**  
Name / Unterschrift - Signature

# TEST REPORT

**M/IT-15/124**

about the following  
IT - test-/ research

**Applicant:** Siemens AG Österreich  
Ruthnergasse 3  
Austria; 1210 Wien

**Product:** SICAM I/Os:  
DO-8212, DI-8110, DI-8111, DI-8112, DI-8113, AI-8320, AI-8510,  
AI-8511, CM-8820

**Serial Number:** ---

**File:** GC8\_TÜV\_IT15-124.pdf

**Standard:** IEC 61010-1:2010; EN 61010-1:2010

**TÜV AUSTRIA SERVICES GMBH**  
**Test laboratory for Telecommunication**

Checked by



Ing. Stefan Matzner



19.11.2015

Copy Nr.: 81

Co - Supervisor of EMC  
Laboratory



Ing. Andreas Malek

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The results of this test report only refer to the provided equipment.

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First and Boiler test  
laboratory

**Notified Body 0408**

**Non-executive  
Board of Directors:**  
KR Dipl.-Ing. Johann  
MARIHART

**Management:**  
Dipl.-Ing. Dr. Stefan  
HAAS  
Mag. Christoph  
WENNINGER

**Registered Office:**  
Krugerstrasse 16  
1015 Vienna/Austria

**Branch Offices:**  
Dornbirn, Graz,  
Innsbruck, Klagenfurt,  
Linz, Salzburg, St. Pölten,  
Wels, Vienna, Brixen (I)  
and Filderstadt (D)

**Company Register  
Court / - Number:**  
Vienna / FN 288476 f

**Bank Details:**  
UC BA  
IBAN  
AT131200052949001066  
BIC BKAUATWW  
RZB  
IBAN  
AT153100000104093282  
BIC RZBAATWW

VAT ATU63240488  
DVR 3002476

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## 1. Applicant

Company:	Siemens AG Österreich
Department	Energy Automation Development
Address	Austria; 1210 Wien; Ruthnergasse 3
Contact Person	Mr. Michael SCHACHINGER

EUT received on	16.09.2015
Date of test	16.09.2015 – 18.11.2015

## 2. Description of EUT

EUT	DO-8212, DI-8110, DI-8111, DI-8112, DI-8113, AI-8320, AI-8510, AI-8511, CM-8820
Serial Number	---
Manufacturer:	Siemens AG Österreich
Description	Siemens AG Österreich provided the following configuration for the measurements:  Dell Laptop;  SICAM CMIC with DO-8212, DI-8112, AI-8320, AI-8510, AI-8511, CM-8820

### 3. Standards / Final Result

Name	Title	Deviations	Result
IEC 61010-1:2010 EN 61010-1:2010	Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirements	Canada / US	PASS.
PASS EUT passed FAIL EUT failed			

**TEST REPORT**  
**IEC 61010-1**  
**Safety requirements for electrical equipment for measurement,**  
**control, and laboratory use**  
**Part 1: General requirements**

Report Number .....: M/IT-15/124

Date of issue .....: 19.11.2015

Total number of pages .....: 80

Applicant's name .....: Siemens AG Österreich

Address .....: Austria; 1210 Wien; Ruthnergasse 3

**Test specification:**

Standard .....: IEC 61010-1:2010 (Third Edition)

Test procedure .....: CB Scheme

Non-standard test method .....: ---

Test Report Form No. ....: IEC61010\_1J

Test Report Form(s) Originator ....: VDE Testing and Certification Institute

Master TRF .....: 2013-11

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**This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.**

Test item description .....: SICAM I/Os

Trade Mark .....: **SIEMENS**

Manufacturer .....: Siemens AG Österreich

Model/Type reference .....: DO-8212, DI-8110, DI-8111, DI-8112, DI-8113, AI-8320, AI-8510, AI-8511, CM-8820

Ratings .....: DO-8212: 5VDC±5%, 800mW; DI-8110, DI-8111, DI-8112, DI-8113: 5VDC±5%, 130mW; AI-8320: 5VDC±5%, 180mW; AI-8510, AI-8511: 5VDC±5%, 800mW; CM-8820: max. 450mV; 5A



<b>Testing procedure and testing location:</b>		
<input checked="" type="checkbox"/>	<b>CB Testing Laboratory:</b>	TÜV AUSTRIA SERVICES GMBH
<b>Testing location/ address .....</b>		Deutschstrasse 10 Austria; 1230 Wien
<input type="checkbox"/>	<b>Associated CB Laboratory:</b>	
<b>Testing location/ address .....</b>		
	<b>Tested by (name + signature).....:</b>	Ing. Stefan Matzner 
	<b>Approved by (name + signature) .....</b>	Ing. Andreas Malek 
<input type="checkbox"/>	<b>Testing procedure: TMP</b>	
<b>Testing location/ address .....</b>		
	<b>Tested by (name + signature).....:</b>	
	<b>Approved by (name + signature) .....</b>	
<input type="checkbox"/>	<b>Testing procedure: WMT</b>	
<b>Testing location/ address .....</b>		
	<b>Tested by (name + signature).....:</b>	
	<b>Witnessed by (name + signature) .....</b>	
	<b>Approved by (name + signature) .....</b>	
<input type="checkbox"/>	<b>Testing procedure: SMT</b>	
<b>Testing location/ address .....</b>		
	<b>Tested by (name + signature).....:</b>	
	<b>Approved by (name + signature) .....</b>	
	<b>Supervised by (name + signature).....:</b>	
<input type="checkbox"/>	<b>Testing procedure: RMT</b>	
<b>Testing location/ address .....</b>		
	<b>Tested by (name + signature).....:</b>	
	<b>Approved by (name + signature) .....</b>	
	<b>Supervised by (name + signature).....:</b>	