





	<b>Test Report issued under the responsibility of:</b>  <b>NCB TÜV SÜD Product Service GmbH</b> <b>Ridlerstr. 65, 80339 Munich</b> <b>Germany</b>	
<p style="text-align: center;"><b>TEST REPORT</b>  <b>IEC 60950-1</b>  <b>Information technology equipment – Safety –</b>  <b>Part 1: General requirements</b></p>		
<p><b>Report Number. .... :</b> PTI-1411085-100  <b>Date of issue ..... :</b> 2016-01-11  <b>Total number of pages ..... :</b> 53</p>		
<p><b>Applicant's name ..... :</b> Hart Intercivic, Inc.  <b>Address ..... :</b> 15500 Wells Port Drive  Austin, TX 78728</p>		
<p><b>Test specification:</b>  <b>Standard ..... :</b> IEC 60950-1:2005 +A1:2009 +A2:2013  <b>Test procedure..... :</b> CCA  <b>Non-standard test method..... :</b> N/A</p>		
<p><b>Test Report Form No..... :</b> IEC60950_1F  <b>Test Report Form(s) Originator.... :</b> SGS Fimko Ltd  <b>Master TRF ..... :</b> Dated 2014-02</p> <p><b>Copyright © 2014 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.</b></p> <p><small>This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.</small></p> <p><b>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.</b></p>		
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<b>Test item description .....</b>	Verity Voting devices, (Verity Scan, Verity Touch Writer, <b>Verity Touch with Access, Verity Controller, Verity Print, Verity Touch, Verity Scan [modified]</b> , Verity Ballot Box, Verity Standard and Verity Accessible Booths)	
<b>Trade Mark.....</b>		
<b>Manufacturer .....</b>	Hart Intercivic, Inc.	
<b>Model/Type reference.....</b>	3005350, 3005352, <b>2005351, 2005355, 2005356, 2005353, 2005368</b>	
<b>Ratings.....</b>	+24 V d.c.; 2.4 A (Verity input)	
<b>Testing procedure and testing location:</b>		
<input checked="" type="checkbox"/>	<b>Testing Laboratory:</b>	<b>Professional Testing Inc.</b>
<b>Testing location/ address .....</b>		1601 N. A. W. Grimes, Suite B, Round Rock, Texas, 78665, USA
<input type="checkbox"/>	<b>Associated Testing Laboratory:</b>	
<b>Testing location/ address .....</b>		
<b>Tested by (name + signature).....</b>		Deniz Kozdereli 
<b>Approved by (name + signature) .....</b>		Kent Delahay 
<input type="checkbox"/>	<b>Testing procedure: Elsewhere:</b>	
<b>Testing location/ address .....</b>		
<b>Tested by (name + signature).....</b>		
<b>Approved by (name + signature) .....</b>		

**List of Attachments (including a total number of pages in each attachment):**

- Attachment 1 – US National Deviation (6)
- Attachment 2 – Canada National Deviation (5)
- Attachment 3 – Photographs (15)
- Attachment 4 – Verity Electronics Specification 4005461 (37)
- Attachment 5 – Verity Operational Guide 6640001 (68)
- Attachment 6 – Verity Polling Place Operations Technical Reference manual 6610-100 (101)
- Attachment 7 – Verity Service and Maintenance Technical Reference Manual 6610-001 (183)

**Summary of testing:**

1.5.2 Evaluation and testing of components	Components were either separately approved devices or were tested as part of the unit.
1.6.2 Input current	The equipment is a Class III device which is powered by a separately approved external limited power source (LPS). The LPS shall provide a nominal output voltage of +24Vd.c and 2.4 A. Equipment was tested with a fluctuation in the dc voltage.
1.7.2 Language	The instructions and product marking shall be in a language acceptable to the country in which the equipment is sold. The US English version was reviewed.
4.1 Stability	The mechanical stability tests were completed assuming normal usage. Verity Touch Writer was locked on to either the Standard Booth or the Accessible Booth and Verity Scan was locked on to the Ballot Box.
4.2.3;4.2.4 Steady force	The steady force tests were completed on the Verity Touch Writer, Verity Scan and the Verity tablet.
4.2.5 Impact	The impact test was completed on the Verity Touch Writer and Verity Scan.
4.2.6 Drop test	The units are not transportable by the operator/voter. The equipment is moved and set up by trained personnel.
4.3.8 Batteries	The tablet has a battery pack that has been previously and separately approved. Report Reference: MH29443-20130906/UL File MH29443) The battery is within the tablet and is operator accessible. The battery connector is keyed to avoid improper installation. The battery is not charged while installed in the tablets. They are charged in a separate device that is not included with this evaluation.
4.5 Thermal Requirements	The equipment is specified for operation in a maximum ambient temperature of 35°C.

**Tests performed (name of test and test clause):**

1.6.2 Input current  
 1.7.11 Marking durability  
 4.1 Mechanicals  
 4.3.2 Handles  
 4.5 Thermals  
 5.3 Abnormal operating conditions

**Testing location:**

Professional Testing (EMI) Inc.  
 1601 N. A.W. Grimes, Suite B  
 Round Rock, Texas, 78665, USA

**Summary of compliance with National Differences:****List of countries addressed**

US, CA

☒ **The product fulfils the requirements of IEC 60950-1:2005 +A1:2009 +A2:2013; UL 60950-1:2007/R:2014-10; CAN/CSA C22.2 No. 60950-1:2007/A2:2014-10**

**Copy of marking plate:**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective Certification Bodies that own these marks.



Trademark



Sample label



Verify input ratings, all units



Tablet Battery label

<b>Test item particulars .....</b>	
<b>Equipment mobility.....</b>	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input checked="" type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in
<b>Connection to the mains.....</b>	<input type="checkbox"/> pluggable equipment <input type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input checked="" type="checkbox"/> not directly connected to the mains
<b>Operating condition.....</b>	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
<b>Access location .....</b>	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
<b>Over voltage category (OVC) .....</b>	<input type="checkbox"/> OVC I <input type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input checked="" type="checkbox"/> other:
<b>Mains supply tolerance (%) or absolute mains supply values .....</b>	Equipment is not directly connected to the mains. Powered by external power supply. (output has +/- 5%)
<b>Tested for IT power systems .....</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>IT testing, phase-phase voltage (V) .....</b>	N/A
<b>Class of equipment .....</b>	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Not classified
<b>Considered current rating of protective device as part of the building installation (A) .....</b>	N/A
<b>Pollution degree (PD) .....</b>	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
<b>IP protection class .....</b>	IPX0
<b>Altitude during operation (m) .....</b>	<3200m
<b>Altitude of test laboratory (m) .....</b>	225m
<b>Mass of equipment (kg) .....</b>	Verity Scan 10.8kg; Verity Touch Writer 10.6kg; Tablet 2.6kg; <b>Verity Touch with Access 10kg;</b> <b>Verity Controller 9.6kg; Verity Print 9.8kg, Verity Touch 9.4 kg</b>
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object .....	N/A
- test object does meet the requirement .....	P (Pass)
- test object does not meet the requirement .....	F (Fail)
<b>Testing .....</b>	
<b>Date of receipt of test item .....</b>	2014-02-04; 2014-11-04; <b>2015-08-14</b>
<b>Date (s) of performance of tests.....</b>	2014-02-10 to 2014-02-14; 2014-11-04 to 2014-11-17; <b>2015-08-14 to 2015-09-17</b>

<b>General remarks:</b>
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.
Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.
When differences exist; they shall be identified in the General product information section.
Name and address of factory (ies).....: TS3 Technology, Inc. 4855 Alpine Drive Stafford, TX 77477 USA
<b>General product information:</b> <p>Verity is a voting system that includes voting devices for paper –based and paperless voting. Verity voting devices that contain electrical components are split into 2 groups, the paper and paperless. Verity units for paper-based voting include features for printing blank ballots, scanning marked ballots and an accessible ballot marking device for voters with disabilities. The Verity Scan (3005350 &amp; <b>2005368</b>) and the Verity Touch Writer (3005352) are part of the group that uses paper ballots.</p> <p>Verity paperless electronic voting systems include features that allow voters to vote on the touchscreen interface or via a handicapped accessible controller. The Verity Controller (2005351), Verity Touch with Access (2005353) and the Verity Touch (2005355) are all part of the paperless group. The Verity Print (2005356) device is a standalone blank ballot printer.</p> <p>All devices use the Verity Tablet and the external case is the same for all devices except for the rear I/O panel. The Ballot Box (3005357), the Standard Booth (3005358), and the Accessible Booth (3005359) do not have electronics and they can be used with either paperless or paper ballot devices. The ballot box and booths will be utilized when completing the mechanical testing of the devices.</p> <p>Verity Scan and Touch Writer work together when paper ballots are used. If ballots have contents that are marked incorrectly, the Verity Scan will display instruction messages so that voters have an opportunity to correct mismarks before casting the ballot. Once ballots are read by the duplex scanner and pass through the ballot feed slot, they drop into the secure ballot box for storage. The Verity Touch Writer is a touch-screen ballot marking device that prints a ballot with the voter's selections to a commercial off-the-shelf printer.</p> <p>For paperless electronic ballots, the Verity Touch, Touch with Access and Controller are used together to cast ballots electronically. The Verity Controller removes the need for paper ballots by collecting the electronic ballots from the Touch and Touch with Access voting devices.</p> <p>Verity Print only prints blank ballots. It is not used for voting, does not tabulate votes and cannot scan ballots. Also, Verity Print is a standalone device that is not connected to other Verity devices.</p> <p>All the Verity electronic devices are powered with a separately approved external LPS (Limited power sources) that is provided with the unit. The LPS supplies +24V d.c. power to the Verity system. There is an internally mounted battery pack (separately approved) within the tablet that can be used for back-up power for up to 2 hours.</p> <p>There are no primary circuits internal to the any of the Verity devices. All internal components are powered by non-hazardous energy. The PCBs are the same for all the models the only variance is that some are more populated than the others. The units tested are considered the worst case equipment Verity Scan, Verity Touch Writer, Verity Touch with Access and the Verity Controller. The Verity Touch Writer and Touch with Access have an accessible controller for use by voters with disabilities. It includes tactile buttons, audio ballot voting and compatibility with additional two-switch adaptive devices.</p> <p><b>Modifications; Report number PTI-1411085-000, was modified on 2015-08-31 to include the following:</b></p> <ol style="list-style-type: none"> <li>1) The report reference number was changed from PTI-1411085-000 to PTI-1411085-100 for all documents.</li> <li>2) 5 new models were added, 3 for the paperless ballots system, 1 for the paper ballots and 1 stand alone.</li> <li>3) Added modification to existing model, Verity Scan with updated USB.</li> <li>4) Added new components to Table 1.5.1.</li> <li>5) Removed external power supplies from Table 1.5.1.</li> <li>6) Update photographs attachment to include the additional models.</li> </ol>

- 7) Additional testing (input current and thermal testing) were completed on two of the models that were considered by the manufacturer as worst case, see above.**
- 8) Correction on the input current for Verity Scan and Touch Writer. The measured values had been flipped; the input current for the Verity Scan was in the place for the Touch Writer and vice versa. See Table 1.6.2.**

**Abbreviations used in the report:**

- normal conditions	<b>N.C.</b>	- single fault conditions	<b>S.F.C</b>
- functional insulation	<b>OP</b>	- basic insulation	<b>BI</b>
- double insulation	<b>DI</b>	- supplementary insulation	<b>SI</b>
- between parts of opposite polarity	<b>BOP</b>	- reinforced insulation	<b>RI</b>

**Indicate used abbreviations (if any)**




IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>1</b>	<b>GENERAL</b>		<b>P</b>
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<b>1.5</b>	<b>Components</b>		<b>P</b>
1.5.1	General		<b>P</b>
	Comply with IEC 60950-1 or relevant component standard	(see appended tables 1.5.1)	<b>P</b>
1.5.2	Evaluation and testing of components	All components are used within their ratings and comply with the applicable parts of this standard and/or a relevant component standard.	<b>P</b>
1.5.3	Thermal controls	No thermal controls.	<b>N/A</b>
1.5.4	Transformers	No isolating transformers used in this equipment.	<b>N/A</b>
1.5.5	Interconnecting cables		<b>N/A</b>
1.5.6	Capacitors bridging insulation		<b>N/A</b>
1.5.7	Resistors bridging insulation		<b>N/A</b>
1.5.7.1	Resistors bridging functional, basic or supplementary insulation		<b>N/A</b>
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits		<b>N/A</b>
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable		<b>N/A</b>
1.5.8	Components in equipment for IT power systems		<b>N/A</b>
1.5.9	Surge suppressors		<b>N/A</b>
1.5.9.1	General		<b>N/A</b>
1.5.9.2	Protection of VDRs		<b>N/A</b>
1.5.9.3	Bridging of functional insulation by a VDR		<b>N/A</b>
1.5.9.4	Bridging of basic insulation by a VDR		<b>N/A</b>
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR		<b>N/A</b>

<b>1.6</b>	<b>Power interface</b>		<b>P</b>
1.6.1	AC power distribution systems	Class III device.	<b>N/A</b>
1.6.2	Input current	(see appended table 1.6.2)	<b>P</b>
1.6.3	Voltage limit of hand-held equipment		<b>N/A</b>
1.6.4	Neutral conductor		<b>N/A</b>

<b>1.7</b>	<b>Marking and instructions</b>		<b>P</b>
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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.1	Power rating and identification markings		P
1.7.1.1	Power rating marking		P
	Multiple mains supply connections.....:	No multiple mains supply connections.	N/A
	Rated voltage(s) or voltage range(s) (V) .....	24 V d.c.	P
	Symbol for nature of supply, for d.c. only.....:		P
	Rated frequency or rated frequency range (Hz) ...:		N/A
	Rated current (mA or A) .....	2.4 A.	P
1.7.1.2	Identification markings		P
	Manufacturer's name or trade-mark or identification mark .....		P
	Model identification or type reference .....	3005350,3005352, <b>2005351, 2005355, 2005356, 2005353 and 2005368.</b>	P
	Symbol for Class II equipment only .....	Not Class II equipment.	N/A
	Other markings and symbols .....		N/A
1.7.1.3	Use of graphical symbols		N/A
1.7.2	Safety instructions and marking	Operating instructions are provided for the user.	P
1.7.2.1	General		P
1.7.2.2	Disconnect devices	The separately approved PS will be considered the disconnect device.	P
1.7.2.3	Overcurrent protective device		N/A
1.7.2.4	IT power distribution systems	No connection to IT power distribution systems.	N/A
1.7.2.5	Operator access with a tool		N/A
1.7.2.6	Ozone	Equipment does not produce ozone.	N/A
1.7.3	Short duty cycles		N/A
1.7.4	Supply voltage adjustment .....		N/A
	Methods and means of adjustment; reference to installation instructions .....		N/A
1.7.5	Power outlets on the equipment .....	No power outlets.	N/A
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference) .....		N/A
1.7.7	Wiring terminals	No wiring terminals.	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.7.1	Protective earthing and bonding terminals .....		N/A
1.7.7.2	Terminals for a.c. mains supply conductors		N/A
1.7.7.3	Terminals for d.c. mains supply conductors		N/A
1.7.8	Controls and indicators		N/A
1.7.8.1	Identification, location and marking .....		N/A
1.7.8.2	Colours .....		N/A
1.7.8.3	Symbols according to IEC 60417 .....		N/A
1.7.8.4	Markings using figures .....		N/A
1.7.9	Isolation of multiple power sources .....		N/A
1.7.10	Thermostats and other regulating devices .....		N/A
1.7.11	Durability		N/A
1.7.12	Removable parts		N/A
1.7.13	Replaceable batteries .....	Coin cell Lithium battery for real time clock (RTC) and battery pack are not located in operator access area. The replaceable battery found in the tablet is a separately approved device.	N/A
	Language(s) .....		—
1.7.14	Equipment for restricted access locations .....	Equipment not intended for installation in RAL.	N/A

<b>2</b>	<b>PROTECTION FROM HAZARDS</b>		<b>P</b>
<b>2.1</b>	<b>Protection from electric shock and energy hazards</b>		<b>N/A</b>
2.1.1	Protection in operator access areas	No energy hazards; Class III equipment has SELV circuits only.	N/A
2.1.1.1	Access to energized parts		N/A
	Test by inspection .....		N/A
	Test with test finger (Figure 2A) .....		N/A
	Test with test pin (Figure 2B) .....		N/A
	Test with test probe (Figure 2C) .....		N/A
2.1.1.2	Battery compartments		N/A
2.1.1.3	Access to ELV wiring		N/A
	Working voltage (V <sub>peak</sub> or V <sub>rms</sub> ); minimum distance through insulation (mm)		—
2.1.1.4	Access to hazardous voltage circuit wiring		N/A
2.1.1.5	Energy hazards .....		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.1.1.6	Manual controls		N/A
2.1.1.7	Discharge of capacitors in equipment		N/A
	Measured voltage (V); time-constant (s) ..... :		—
2.1.1.8	Energy hazards – d.c. mains supply		N/A
	a) Capacitor connected to the d.c. mains supply . :		N/A
	b) Internal battery connected to the d.c. mains supply :		N/A
2.1.1.9	Audio amplifiers ..... :		N/A
2.1.2	Protection in service access areas		N/A
2.1.3	Protection in restricted access locations		N/A
<b>2.2</b>	<b>SELV circuits</b>		<b>P</b>
2.2.1	General requirements	SELV limits are not exceeded in normal or single fault conditions.	<b>P</b>
2.2.2	Voltages under normal conditions (V) ..... :	Within SELV limits.	<b>P</b>
2.2.3	Voltages under fault conditions (V) ..... :	Within SELV limits.	<b>P</b>
2.2.4	Connection of SELV circuits to other circuits ..... :	SELV circuits are only connected to SELV circuits.	<b>P</b>
<b>2.3</b>	<b>TNV circuits</b>		<b>N/A</b>
2.3.1	Limits	No TNV circuits.	<b>N/A</b>
	Type of TNV circuits ..... :		—
2.3.2	Separation from other circuits and from accessible parts		<b>N/A</b>
2.3.2.1	General requirements		<b>N/A</b>
2.3.2.2	Protection by basic insulation		<b>N/A</b>
2.3.2.3	Protection by earthing		<b>N/A</b>
2.3.2.4	Protection by other constructions ..... :		<b>N/A</b>
2.3.3	Separation from hazardous voltages		<b>N/A</b>
	Insulation employed..... :		—
2.3.4	Connection of TNV circuits to other circuits		<b>N/A</b>
	Insulation employed..... :		—
2.3.5	Test for operating voltages generated externally		<b>N/A</b>
<b>2.4</b>	<b>Limited current circuits</b>		<b>N/A</b>
2.4.1	General requirements	No limited current circuits.	<b>N/A</b>
2.4.2	Limit values		<b>N/A</b>
	Frequency (Hz) ..... :		—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

	Measured current (mA) .....		—
	Measured voltage (V) .....		—
	Measured circuit capacitance (nF or $\mu$ F) .....		—
2.4.3	Connection of limited current circuits to other circuits		N/A

<b>2.5</b>	<b>Limited power sources</b>		<b>N/A</b>
	a) Inherently limited output	No such outputs.	N/A
	b) Impedance limited output		N/A
	c) Regulating network or IC current limiter, limits output under normal operating and single fault condition		N/A
	Use of integrated circuit (IC) current limiters		N/A
	d) Overcurrent protective device limited output		N/A
	Max. output voltage (V), max. output current (A), max. apparent power (VA) .....		—
	Current rating of overcurrent protective device (A) ..		—

<b>2.6</b>	<b>Provisions for earthing and bonding</b>		<b>N/A</b>
2.6.1	Protective earthing	Class III device.	N/A
2.6.2	Functional earthing	Class III device.	N/A
	Use of symbol for functional earthing .....		N/A
2.6.3	Protective earthing and protective bonding conductors		N/A
2.6.3.1	General		N/A
2.6.3.2	Size of protective earthing conductors		N/A
	Rated current (A), cross-sectional area ( $\text{mm}^2$ ), AWG .....		—
2.6.3.3	Size of protective bonding conductors		N/A
	Rated current (A), cross-sectional area ( $\text{mm}^2$ ), AWG .....		—
	Protective current rating (A), cross-sectional area ( $\text{mm}^2$ ), AWG .....		—
2.6.3.4	Resistance of earthing conductors and their terminations; resistance ( $\Omega$ ), voltage drop (V), test current (A), duration (min) .....		N/A
2.6.3.5	Colour of insulation .....		N/A
2.6.4	Terminals		N/A
2.6.4.1	General	Class III device.	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.6.4.2	Protective earthing and bonding terminals		N/A
	Rated current (A), type, nominal thread diameter (mm) .....		—
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors		N/A
2.6.5	Integrity of protective earthing		N/A
2.6.5.1	Interconnection of equipment		N/A
2.6.5.2	Components in protective earthing conductors and protective bonding conductors		N/A
2.6.5.3	Disconnection of protective earth		N/A
2.6.5.4	Parts that can be removed by an operator		N/A
2.6.5.5	Parts removed during servicing		N/A
2.6.5.6	Corrosion resistance		N/A
2.6.5.7	Screws for protective bonding		N/A
2.6.5.8	Reliance on telecommunication network or cable distribution system		N/A

<b>2.7</b>	<b>Overcurrent and earth fault protection in primary circuits</b>		N/A
2.7.1	Basic requirements	No primary circuits.	N/A
	Instructions when protection relies on building installation		N/A
2.7.2	Faults not simulated in 5.3.7		N/A
2.7.3	Short-circuit backup protection		N/A
2.7.4	Number and location of protective devices .....		N/A
2.7.5	Protection by several devices		N/A
2.7.6	Warning to service personnel .....		N/A

<b>2.8</b>	<b>Safety interlocks</b>		N/A
2.8.1	General principles	No safety interlocks.	N/A
2.8.2	Protection requirements		N/A
2.8.3	Inadvertent reactivation		N/A
2.8.4	Fail-safe operation		N/A
	Protection against extreme hazard		N/A
2.8.5	Moving parts		N/A
2.8.6	Overriding		N/A
2.8.7	Switches, relays and their related circuits		N/A
2.8.7.1	Separation distances for contact gaps and their related circuits (mm) .....		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

2.8.7.2	Overload test		N/A
2.8.7.3	Endurance test		N/A
2.8.7.4	Electric strength test		N/A
2.8.8	Mechanical actuators		N/A

<b>2.9</b>	<b>Electrical insulation</b>		<b>P</b>
2.9.1	Properties of insulating materials	No rubber, asbestos, or hygroscopic materials used.	P
2.9.2	Humidity conditioning		N/A
	Relative humidity (%), temperature (°C) .....		—
2.9.3	Grade of insulation	Functional insulation only.	P
2.9.4	Separation from hazardous voltages	Class III device.	N/A
	Method(s) used .....		—

<b>2.10</b>	<b>Clearances, creepage distances and distances through insulation</b>		<b>N/A</b>
2.10.1	General	Class III device.	N/A
2.10.1.1	Frequency .....		N/A
2.10.1.2	Pollution degrees .....		N/A
2.10.1.3	Reduced values for functional insulation		N/A
2.10.1.4	Intervening unconnected conductive parts		N/A
2.10.1.5	Insulation with varying dimensions		N/A
2.10.1.6	Special separation requirements		N/A
2.10.1.7	Insulation in circuits generating starting pulses		N/A
2.10.2	Determination of working voltage		N/A
2.10.2.1	General		N/A
2.10.2.2	RMS working voltage		N/A
2.10.2.3	Peak working voltage		N/A
2.10.3	Clearances	Class III device.	N/A
2.10.3.1	General		N/A
2.10.3.2	Mains transient voltages		N/A
	a) AC mains supply .....	Not directly connected to mains.	N/A
	b) Earthed d.c. mains supplies .....	Not directly connected to mains.	N/A
	c) Unearthed d.c. mains supplies .....	Not directly connected to mains.	N/A
	d) Battery operation .....	Not directly connected to mains.	N/A
2.10.3.3	Clearances in primary circuits		N/A
2.10.3.4	Clearances in secondary circuits		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.3.5	Clearances in circuits having starting pulses		N/A
2.10.3.6	Transients from a.c. mains supply .....	No transients.	N/A
2.10.3.7	Transients from d.c. mains supply .....	No transients.	N/A
2.10.3.8	Transients from telecommunication networks and cable distribution systems .....	No transients.	N/A
2.10.3.9	Measurement of transient voltage levels		N/A
	a) Transients from a mains supply		N/A
	For an a.c. mains supply .....	No transients.	N/A
	For a d.c. mains supply .....	No transients.	N/A
	b) Transients from a telecommunication network :		N/A
2.10.4	Creepage distances	Class III device.	N/A
2.10.4.1	General		N/A
2.10.4.2	Material group and comparative tracking index		N/A
	CTI tests .....	No CTI tests.	—
2.10.4.3	Minimum creepage distances		N/A
2.10.5	Solid insulation	Class III device.	N/A
2.10.5.1	General		N/A
2.10.5.2	Distances through insulation		N/A
2.10.5.3	Insulating compound as solid insulation		N/A
2.10.5.4	Semiconductor devices		N/A
2.10.5.5.	Cemented joints		N/A
2.10.5.6	Thin sheet material – General		N/A
2.10.5.7	Separable thin sheet material		N/A
	Number of layers (pcs) .....	Not applicable.	—
2.10.5.8	Non-separable thin sheet material		N/A
2.10.5.9	Thin sheet material – standard test procedure		N/A
	Electric strength test		—
2.10.5.10	Thin sheet material – alternative test procedure		N/A
	Electric strength test		—
2.10.5.11	Insulation in wound components		N/A
2.10.5.12	Wire in wound components		N/A
	Working voltage .....	Not applicable.	N/A
	a) Basic insulation not under stress .....	Not applicable.	N/A
	b) Basic, supplementary, reinforced insulation .....	Not applicable.	N/A
	c) Compliance with Annex U .....	Not applicable.	N/A
	Two wires in contact inside wound component; angle between 45° and 90° .....	Not applicable.	N/A



IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
2.10.5.13	Wire with solvent-based enamel in wound components		N/A
	Electric strength test		—
	Routine test		N/A
2.10.5.14	Additional insulation in wound components		N/A
	Working voltage ..... :	Not applicable.	N/A
	- Basic insulation not under stress ..... :	Not applicable.	N/A
	- Supplementary, reinforced insulation ..... :	Not applicable.	N/A
2.10.6	Construction of printed boards	Class III device.	N/A
2.10.6.1	Uncoated printed boards		N/A
2.10.6.2	Coated printed boards		N/A
2.10.6.3	Insulation between conductors on the same inner surface of a printed board		N/A
2.10.6.4	Insulation between conductors on different layers of a printed board		N/A
	Distance through insulation		N/A
	Number of insulation layers (pcs) ..... :	Not applicable.	N/A
2.10.7	Component external terminations	No external terminations.	N/A
2.10.8	Tests on coated printed boards and coated components		N/A
2.10.8.1	Sample preparation and preliminary inspection		N/A
2.10.8.2	Thermal conditioning		N/A
2.10.8.3	Electric strength test		N/A
2.10.8.4	Abrasion resistance test		N/A
2.10.9	Thermal cycling		N/A
2.10.10	Test for Pollution Degree 1 environment and insulating compound		N/A
2.10.11	Tests for semiconductor devices and cemented joints		N/A
2.10.12	Enclosed and sealed parts		N/A

<b>3</b>	<b>WIRING, CONNECTIONS AND SUPPLY</b>		<b>P</b>
<b>3.1</b>	<b>General</b>		<b>P</b>
3.1.1	Current rating and overcurrent protection		<b>P</b>
3.1.2	Protection against mechanical damage	Wireways are smooth and free from sharp edges.	<b>P</b>
3.1.3	Securing of internal wiring		<b>P</b>
3.1.4	Insulation of conductors		<b>P</b>
3.1.5	Beads and ceramic insulators		<b>N/A</b>

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

3.1.6	Screws for electrical contact pressure		N/A
3.1.7	Insulating materials in electrical connections		N/A
3.1.8	Self-tapping and spaced thread screws		N/A
3.1.9	Termination of conductors		N/A
	10 N pull test		N/A
3.1.10	Sleeving on wiring		N/A

<b>3.2</b>	<b>Connection to a mains supply</b>		<b>N/A</b>
3.2.1	Means of connection	Connected to separately approved power adaptor.	N/A
3.2.1.1	Connection to an a.c. mains supply		N/A
3.2.1.2	Connection to a d.c. mains supply		N/A
3.2.2	Multiple supply connections	Equipment does not have multiple supply connections.	N/A
3.2.3	Permanently connected equipment	Equipment is not permanently connected.	N/A
	Number of conductors, diameter of cable and conduits (mm) .....	Not applicable.	—
3.2.4	Appliance inlets		N/A
3.2.5	Power supply cords	Refer below.	N/A
3.2.5.1	AC power supply cords	Power supply cord is part of a separately approved device.	N/A
	Type .....	Not applicable.	—
	Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG .....		—
3.2.5.2	DC power supply cords	Power supply cord is part of a separately approved device.	N/A
3.2.6	Cord anchorages and strain relief		N/A
	Mass of equipment (kg), pull (N) .....	Not applicable.	—
	Longitudinal displacement (mm) .....	Not applicable.	—
3.2.7	Protection against mechanical damage		N/A
3.2.8	Cord guards		N/A
	Diameter or minor dimension D (mm); test mass (g) .....	Not applicable.	—
	Radius of curvature of cord (mm) .....	Not applicable.	—
3.2.9	Supply wiring space		N/A

<b>3.3</b>	<b>Wiring terminals for connection of external conductors</b>		<b>N/A</b>
3.3.1	Wiring terminals	No wiring terminals in device.	N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

3.3.2	Connection of non-detachable power supply cords		N/A
3.3.3	Screw terminals		N/A
3.3.4	Conductor sizes to be connected		N/A
	Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> ) ..... :	Not applicable.	—
3.3.5	Wiring terminal sizes		N/A
	Rated current (A), type, nominal thread diameter (mm) ..... :	Not applicable.	—
3.3.6	Wiring terminal design		N/A
3.3.7	Grouping of wiring terminals		N/A
3.3.8	Stranded wire		N/A

<b>3.4</b>	<b>Disconnection from the mains supply</b>		<b>N/A</b>
3.4.1	General requirement		N/A
3.4.2	Disconnect devices		N/A
3.4.3	Permanently connected equipment		N/A
3.4.4	Parts which remain energized		N/A
3.4.5	Switches in flexible cords		N/A
3.4.6	Number of poles - single-phase and d.c. equipment		N/A
3.4.7	Number of poles - three-phase equipment		N/A
3.4.8	Switches as disconnect devices		N/A
3.4.9	Plugs as disconnect devices		N/A
3.4.10	Interconnected equipment		N/A
3.4.11	Multiple power sources		N/A

<b>3.5</b>	<b>Interconnection of equipment</b>		<b>N/A</b>
3.5.1	General requirements		N/A
3.5.2	Types of interconnection circuits ..... :	Not applicable.	N/A
3.5.3	ELV circuits as interconnection circuits		N/A
3.5.4	Data ports for additional equipment		N/A

<b>4</b>	<b>PHYSICAL REQUIREMENTS</b>		<b>P</b>
<b>4.1</b>	<b>Stability</b>		<b>P</b>
	Angle of 10°		P
	Test force (N) ..... :	44 N ( Scan); 29.4 N (Touch Writer)	P

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>4.2</b>	<b>Mechanical strength</b>		<b>P</b>
4.2.1	General		<b>P</b>
	Rack-mounted equipment.	Equipment is not rack-mounted.	<b>N/A</b>
4.2.2	Steady force test, 10 N		<b>N/A</b>
4.2.3	Steady force test, 30 N		<b>N/A</b>
4.2.4	Steady force test, 250 N		<b>P</b>
4.2.5	Impact test		<b>P</b>
	Fall test	1.3m.	<b>P</b>
	Swing test		<b>N/A</b>
4.2.6	Drop test; height (mm) ..... :	Tablet dropped from 1 m.	<b>P</b>
4.2.7	Stress relief test		<b>N/A</b>
4.2.8	Cathode ray tubes	Equipment does not use cathode ray tubes.	<b>N/A</b>
	Picture tube separately certified ..... :		<b>N/A</b>
4.2.9	High pressure lamps	Equipment does not contain high pressure lamps.	<b>N/A</b>
4.2.10	Wall or ceiling mounted equipment; force (N) ..... :	Equipment is not wall or ceiling mounted.	<b>N/A</b>

<b>4.3</b>	<b>Design and construction</b>		<b>P</b>
4.3.1	Edges and corners	Rounded and smooth.	<b>P</b>
4.3.2	Handles and manual controls; force (N) ..... :	50N (12lbf).	<b>P</b>
4.3.3	Adjustable controls	No adjustable controls.	<b>N/A</b>
4.3.4	Securing of parts		<b>N/A</b>
4.3.5	Connection by plugs and sockets		<b>N/A</b>
4.3.6	Direct plug-in equipment	Equipment is not direct plug-in equipment.	<b>N/A</b>
	Torque ..... :	Not applicable.	—
	Compliance with the relevant mains plug standard ..... :	Not applicable.	<b>N/A</b>
4.3.7	Heating elements in earthed equipment		<b>N/A</b>
4.3.8	Batteries	Batteries are separately approved devices. See separate battery test report.	<b>P</b>
	- Overcharging of a rechargeable battery	Batteries can not be charged while docked on equipment.	<b>N/A</b>
	- Unintentional charging of a non-rechargeable battery	Battery is rechargeable. See summary of testing.	<b>N/A</b>

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

	- Reverse charging of a rechargeable battery	Charger is not part of this evaluation.	N/A
	- Excessive discharging rate for any battery		P
4.3.9	Oil and grease	Equipment does not use oil or grease.	N/A
4.3.10	Dust, powders, liquids and gases	Equipment does not use dust, powders, liquids or gases.	N/A
4.3.11	Containers for liquids or gases		N/A
4.3.12	Flammable liquids .....	Equipment does not use flammable liquids.	N/A
	Quantity of liquid (l) .....	Not applicable.	N/A
	Flash point (°C) .....	Not applicable.	N/A
4.3.13	Radiation		N/A
4.3.13.1	General		N/A
4.3.13.2	Ionizing radiation		N/A
	Measured radiation (pA/kg) .....	Not applicable.	—
	Measured high-voltage (kV) .....	Not applicable.	—
	Measured focus voltage (kV) .....	Not applicable.	—
	CRT markings .....	Not applicable.	—
4.3.13.3	Effect of ultraviolet (UV) radiation on materials		N/A
	Part, property, retention after test, flammability classification .....	Not applicable.	N/A
4.3.13.4	Human exposure to ultraviolet (UV) radiation .....	Equipment does not use UV radiation.	N/A
4.3.13.5	Lasers (including laser diodes) and LEDs	Diffused LED's only.	N/A
4.3.13.5.1	Lasers (including laser diodes)		N/A
	Laser class .....	Not applicable.	—
4.3.13.5.2	Light emitting diodes (LEDs)		
4.3.13.6	Other types .....	Not applicable.	N/A

<b>4.4</b>	<b>Protection against hazardous moving parts</b>		<b>P</b>
4.4.1	General	Refer below:	<b>P</b>
4.4.2	Protection in operator access areas .....	The scanner is covered but some moving parts are still accessible, these parts stop within moments of opening the cover. No safety concern.	<b>P</b>
	Household and home/office document/media shredders	Equipment is not a shredder.	<b>N/A</b>

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.4.3	Protection in restricted access locations .....	Not in a restricted access location.	N/A
4.4.4	Protection in service access areas		N/A
4.4.5	Protection against moving fan blades	Equipment does not contain fans.	N/A
4.4.5.1	General		N/A
	Not considered to cause pain or injury. a).....:	Not applicable.	N/A
	Is considered to cause pain, not injury. b) .....	Not applicable.	N/A
	Considered to cause injury. c) .....	Not applicable.	N/A
4.4.5.2	Protection for users		N/A
	Use of symbol or warning .....	Not applicable.	N/A
4.4.5.3	Protection for service persons		N/A
	Use of symbol or warning .....	Not applicable.	N/A

<b>4.5</b>	<b>Thermal requirements</b>		<b>P</b>
4.5.1	General	Refer below:	P
4.5.2	Temperature tests		P
	Normal load condition per Annex L .....	L7 considered (other equipment).	—
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
4.5.5	Resistance to abnormal heat .....	No hazardous voltages present.	N/A

<b>4.6</b>	<b>Openings in enclosures</b>		<b>N/A</b>
4.6.1	Top and side openings	No hazardous voltages.	N/A
	Dimensions (mm) .....	Not applicable.	—
4.6.2	Bottoms of fire enclosures		N/A
	Construction of the bottommm, dimensions (mm) .. :		—
4.6.3	Doors or covers in fire enclosures		N/A
4.6.4	Openings in transportable equipment	Class III equipment.	N/A
4.6.4.1	Constructional design measures		N/A
	Dimensions (mm) .....	Not applicable.	—
4.6.4.2	Evaluation measures for larger openings		N/A
4.6.4.3	Use of metallized parts		N/A
4.6.5	Adhesives for constructional purposes	No adhesives used for contructional purposes.	N/A
	Conditioning temperature (°C), time (weeks) .....	Not applicable.	—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>4.7</b>	<b>Resistance to fire</b>		<b>P</b>
4.7.1	Reducing the risk of ignition and spread of flame	Method 1 is used.	<b>P</b>
	Method 1, selection and application of components wiring and materials	(See appended table 1.5.1).	<b>P</b>
	Method 2, application of all of simulated fault condition tests		<b>N/A</b>
4.7.2	Conditions for a fire enclosure		<b>N/A</b>
4.7.2.1	Parts requiring a fire enclosure		<b>N/A</b>
4.7.2.2	Parts not requiring a fire enclosure		<b>N/A</b>
4.7.3	Materials		<b>P</b>
4.7.3.1	General	Components and materials have adequate flammability ratings. (See appended table 1.5.1).	<b>P</b>
4.7.3.2	Materials for fire enclosures		<b>N/A</b>
4.7.3.3	Materials for components and other parts outside fire enclosures	No fire enclosure required.	<b>N/A</b>
4.7.3.4	Materials for components and other parts inside fire enclosures		<b>N/A</b>
4.7.3.5	Materials for air filter assemblies		<b>N/A</b>
4.7.3.6	Materials used in high-voltage components		<b>N/A</b>

<b>5</b>	<b>ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS</b>		<b>P</b>
<b>5.1</b>	<b>Touch current and protective conductor current</b>		<b>N/A</b>
5.1.1	General		<b>N/A</b>
5.1.2	Configuration of equipment under test (EUT)	Class III device.	<b>N/A</b>
5.1.2.1	Single connection to an a.c. mains supply	No direct connection to mains.	<b>N/A</b>
5.1.2.2	Redundant multiple connections to an a.c. mains supply		<b>N/A</b>
5.1.2.3	Simultaneous multiple connections to an a.c. mains supply		<b>N/A</b>
5.1.3	Test circuit	No hazardous voltage present.	<b>N/A</b>
5.1.4	Application of measuring instrument		<b>N/A</b>
5.1.5	Test procedure		<b>N/A</b>
5.1.6	Test measurements		<b>N/A</b>
	Supply voltage (V) .....	Not applicable.	—
	Measured touch current (mA) .....	Not applicable.	—
	Max. allowed touch current (mA) .....	Not applicable.	—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

	Measured protective conductor current (mA) .....	Not applicable.	—
	Max. allowed protective conductor current (mA)....	Not applicable.	—
5.1.7	Equipment with touch current exceeding 3,5 mA		N/A
5.1.7.1	General .....	Not applicable.	N/A
5.1.7.2	Simultaneous multiple connections to the supply		N/A
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks		N/A
5.1.8.1	Limitation of the touch current to a telecommunication network or to a cable distribution system		N/A
	Supply voltage (V) .....	Not applicable.	—
	Measured touch current (mA) .....	Not applicable.	—
	Max. allowed touch current (mA) .....	Not applicable.	—
5.1.8.2	Summation of touch currents from telecommunication networks		N/A
	a) EUT with earthed telecommunication ports .....	Not applicable.	N/A
	b) EUT whose telecommunication ports have no reference to protective earth		N/A

<b>5.2</b>	<b>Electric strength</b>		<b>N/A</b>
5.2.1	General	Class III device.	N/A
5.2.2	Test procedure	Class III device.	N/A

<b>5.3</b>	<b>Abnormal operating and fault conditions</b>		<b>P</b>
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P
5.3.2	Motors	Stepper motors used in printer and scanner.	N/A
5.3.3	Transformers	No such device.	N/A
5.3.4	Functional insulation.....	Not applicable.	N/A
5.3.5	Electromechanical components		N/A
5.3.6	Audio amplifiers in ITE .....	Not applicable.	N/A
5.3.7	Simulation of faults		N/A
5.3.8	Unattended equipment		P
5.3.9	Compliance criteria for abnormal operating and fault conditions	Refer below:	P
5.3.9.1	During the tests	No fire or molten materials; no excessive temperatures.	P



IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

5.3.9.2	After the tests		N/A
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<b>6</b>	<b>CONNECTION TO TELECOMMUNICATION NETWORKS</b>		<b>N/A</b>
<b>6.1</b>	<b>Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment</b>		<b>N/A</b>
6.1.1	Protection from hazardous voltages		N/A
6.1.2	Separation of the telecommunication network from earth		N/A
6.1.2.1	Requirements	No connection to telecommunications systems.	N/A
	Supply voltage (V) .....	Not applicable.	—
	Current in the test circuit (mA) .....	Not applicable.	—
6.1.2.2	Exclusions .....	Not applicable.	N/A

<b>6.2</b>	<b>Protection of equipment users from overvoltages on telecommunication networks</b>		<b>N/A</b>
6.2.1	Separation requirements	No connection to telecommunications systems.	N/A
6.2.2	Electric strength test procedure		N/A
6.2.2.1	Impulse test		N/A
6.2.2.2	Steady-state test		N/A
6.2.2.3	Compliance criteria		N/A

<b>6.3</b>	<b>Protection of the telecommunication wiring system from overheating</b>		<b>N/A</b>
	Max. output current (A) .....	No connection to telecommunications systems.	—
	Current limiting method .....	Not applicable.	—

<b>7</b>	<b>CONNECTION TO CABLE DISTRIBUTION SYSTEMS</b>		<b>N/A</b>
<b>7.1</b>	<b>General</b>	No connection to cable distribution systems.	<b>N/A</b>
7.2	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment		N/A
7.3	Protection of equipment users from overvoltages on the cable distribution system		N/A
7.4	Insulation between primary circuits and cable distribution systems		N/A
7.4.1	General		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

7.4.2	Voltage surge test		N/A
7.4.3	Impulse test		N/A

<b>A</b>	<b>ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE</b>		<b>N/A</b>
<b>A.1</b>	<b>Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)</b>	Flammability tests not required.	<b>N/A</b>
A.1.1	Samples.....:	Not applicable.	—
	Wall thickness (mm) .....	Not applicable.	—
A.1.2	Conditioning of samples; temperature (°C) .....	Not applicable.	<b>N/A</b>
A.1.3	Mounting of samples .....	Not applicable.	<b>N/A</b>
A.1.4	Test flame (see IEC 60695-11-3)		<b>N/A</b>
	Flame A, B, C or D .....	Not applicable.	—
A.1.5	Test procedure		<b>N/A</b>
A.1.6	Compliance criteria		<b>N/A</b>
	Sample 1 burning time (s) .....	Not applicable.	—
	Sample 2 burning time (s) .....	Not applicable.	—
	Sample 3 burning time (s) .....	Not applicable.	—
<b>A.2</b>	<b>Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)</b>		<b>N/A</b>
A.2.1	Samples, material.....:	Not applicable.	—
	Wall thickness (mm) .....	Not applicable.	—
A.2.2	Conditioning of samples; temperature (°C) .....	Not applicable.	<b>N/A</b>
A.2.3	Mounting of samples .....	Not applicable.	<b>N/A</b>
A.2.4	Test flame (see IEC 60695-11-4)		<b>N/A</b>
	Flame A, B or C .....	Not applicable.	—
A.2.5	Test procedure		<b>N/A</b>
A.2.6	Compliance criteria		<b>N/A</b>
	Sample 1 burning time (s) .....	Not applicable.	—
	Sample 2 burning time (s) .....	Not applicable.	—
	Sample 3 burning time (s) .....	Not applicable.	—
A.2.7	Alternative test acc. to IEC 60695-11-5, cl. 5 and 9		<b>N/A</b>
	Sample 1 burning time (s) .....	Not applicable.	—
	Sample 2 burning time (s) .....	Not applicable.	—
	Sample 3 burning time (s) .....	Not applicable.	—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
<b>A.3</b>	<b>Hot flaming oil test (see 4.6.2)</b>		<b>N/A</b>
A.3.1	Mounting of samples		<b>N/A</b>
A.3.2	Test procedure		<b>N/A</b>
A.3.3	Compliance criterion		<b>N/A</b>
<b>B</b>	<b>ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)</b>		<b>N/A</b>
<b>B.1</b>	<b>General requirements</b>	All motors are DC stepper motors.	<b>N/A</b>
	Position .....	Not applicable.	—
	Manufacturer .....	Not applicable.	—
	Type .....	Not applicable.	—
	Rated values .....	Not applicable.	—
<b>B.2</b>	<b>Test conditions</b>		<b>N/A</b>
<b>B.3</b>	<b>Maximum temperatures</b>		<b>N/A</b>
<b>B.4</b>	<b>Running overload test</b>		<b>N/A</b>
<b>B.5</b>	<b>Locked-rotor overload test</b>		<b>N/A</b>
	Test duration (days) .....	Not applicable.	—
	Electric strength test: test voltage (V) .....	Not applicable.	—
<b>B.6</b>	<b>Running overload test for d.c. motors in secondary circuits</b>		<b>N/A</b>
B.6.1	General		<b>N/A</b>
B.6.2	Test procedure		<b>N/A</b>
B.6.3	Alternative test procedure		<b>N/A</b>
B.6.4	Electric strength test; test voltage (V) .....	Not applicable.	<b>N/A</b>
<b>B.7</b>	<b>Locked-rotor overload test for d.c. motors in secondary circuits</b>		<b>N/A</b>
B.7.1	General		<b>N/A</b>
B.7.2	Test procedure		<b>N/A</b>
B.7.3	Alternative test procedure		<b>N/A</b>
B.7.4	Electric strength test; test voltage (V) .....	Not applicable.	<b>N/A</b>
<b>B.8</b>	<b>Test for motors with capacitors</b>		<b>N/A</b>
<b>B.9</b>	<b>Test for three-phase motors</b>		<b>N/A</b>
<b>B.10</b>	<b>Test for series motors</b>		<b>N/A</b>
	Operating voltage (V) .....	Not applicable.	—
<b>C</b>	<b>ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)</b>		<b>N/A</b>

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

	Position .....	No such transformers used.	—
	Manufacturer .....	Not applicable.	—
	Type .....	Not applicable.	—
	Rated values .....	Not applicable.	—
	Method of protection .....	Not applicable.	—
<b>C.1</b>	<b>Overload test</b>		<b>N/A</b>
<b>C.2</b>	<b>Insulation</b>		<b>N/A</b>
	Protection from displacement of windings .....	Not applicable.	<b>N/A</b>

<b>D</b>	<b>ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)</b>		<b>N/A</b>
<b>D.1</b>	<b>Measuring instrument</b>		<b>N/A</b>
<b>D.2</b>	<b>Alternative measuring instrument</b>		<b>N/A</b>

<b>E</b>	<b>ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)</b>		<b>N/A</b>
<b>F</b>	<b>ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)</b>		<b>N/A</b>

<b>G</b>	<b>ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES</b>		<b>N/A</b>
<b>G.1</b>	<b>Clearances</b>	Class III device.	<b>N/A</b>
G.1.1	General		<b>N/A</b>
G.1.2	Summary of the procedure for determining minimum clearances		<b>N/A</b>
<b>G.2</b>	<b>Determination of mains transient voltage (V)</b>	Class III device.	<b>N/A</b>
G.2.1	AC mains supply .....	Not applicable.	<b>N/A</b>
G.2.2	Earthed d.c. mains supplies .....	Not applicable.	<b>N/A</b>
G.2.3	Unearthed d.c. mains supplies .....	Not applicable.	<b>N/A</b>
G.2.4	Battery operation .....	Not applicable.	<b>N/A</b>
<b>G.3</b>	<b>Determination of telecommunication network transient voltage (V) .....</b>	No connection to telecommunications systems	<b>N/A</b>
<b>G.4</b>	<b>Determination of required withstand voltage (V)</b>		<b>N/A</b>
G.4.1	Mains transients and internal repetitive peaks .....	Not applicable.	<b>N/A</b>
G.4.2	Transients from telecommunication networks .....	Not applicable.	<b>N/A</b>
G.4.3	Combination of transients		<b>N/A</b>
G.4.4	Transients from cable distribution systems		<b>N/A</b>
<b>G.5</b>	<b>Measurement of transient voltages (V)</b>	Class III device.	<b>N/A</b>
	a) Transients from a mains supply		<b>N/A</b>

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

	For an a.c. mains supply		N/A
	For a d.c. mains supply		N/A
	b) Transients from a telecommunication network		N/A
<b>G.6</b>	<b>Determination of minimum clearances .....</b>	Class III device.	N/A

<b>H</b>	<b>ANNEX H, IONIZING RADIATION (see 4.3.13)</b>		N/A
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<b>J</b>	<b>ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)</b>		N/A
	Metal(s) used .....	Not applicable.	—

<b>K</b>	<b>ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)</b>		N/A
K.1	Making and breaking capacity	No such device used.	N/A
K.2	Thermostat reliability; operating voltage (V) .....	Not applicable.	N/A
K.3	Thermostat endurance test; operating voltage (V) .....		N/A
K.4	Temperature limiter endurance; operating voltage (V) .....	Not applicable.	N/A
K.5	Thermal cut-out reliability		N/A
K.6	Stability of operation		N/A

<b>L</b>	<b>ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)</b>		P
L.1	Typewriters		N/A
L.2	Adding machines and cash registers		N/A
L.3	Erasers		N/A
L.4	Pencil sharpeners		N/A
L.5	Duplicators and copy machines		N/A
L.6	Motor-operated files		N/A
L.7	Other business equipment	Considered.	P

<b>M</b>	<b>ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)</b>		N/A
M.1	Introduction	No ringing signals in or produced by equipment.	N/A
M.2	Method A		N/A
M.3	Method B		N/A
M.3.1	Ringing signal		N/A
M.3.1.1	Frequency (Hz) .....	Not applicable.	—

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
M.3.1.2	Voltage (V) .....	Not applicable.	—
M.3.1.3	Cadence; time (s), voltage (V) .....	Not applicable.	—
M.3.1.4	Single fault current (mA) .....	Not applicable.	—
M.3.2	Tripping device and monitoring voltage .....	Not applicable.	N/A
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage		N/A
M.3.2.2	Tripping device		N/A
M.3.2.3	Monitoring voltage (V) .....	Not applicable.	N/A
<b>N</b>	<b>ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)</b>		<b>N/A</b>
N.1	ITU-T impulse test generators	Not a telecommunications device.	N/A
N.2	IEC 60065 impulse test generator		N/A
<b>P</b>	<b>ANNEX P, NORMATIVE REFERENCES</b>		—
<b>Q</b>	<b>ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)</b>		<b>N/A</b>
	- Preferred climatic categories .....	Not applicable.	N/A
	- Maximum continuous voltage .....	Not applicable.	N/A
	- Combination pulse current .....	Not applicable.	N/A
	Body of the VDR Test according to IEC60695-11-5.....	Not applicable.	N/A
	Body of the VDR. Flammability class of material ( min V-1).....	Not applicable.	N/A
<b>R</b>	<b>ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES</b>		<b>N/A</b>
R.1	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)		N/A
R.2	Reduced clearances (see 2.10.3)		N/A
<b>S</b>	<b>ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)</b>		<b>N/A</b>
S.1	Test equipment	Not a telecommunications device.	N/A
S.2	Test procedure		N/A
S.3	Examples of waveforms during impulse testing		N/A

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>T</b>	<b>ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)</b>		<b>N/A</b>
			—

<b>U</b>	<b>ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)</b>		<b>N/A</b>
			—

<b>V</b>	<b>ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)</b>		<b>N/A</b>
V.1	Introduction	Class III device. No direct connection to AC distribution systems.	<b>N/A</b>
V.2	TN power distribution systems		<b>N/A</b>

<b>W</b>	<b>ANNEX W, SUMMATION OF TOUCH CURRENTS</b>		<b>N/A</b>
W.1	Touch current from electronic circuits	Class III device. No direct connection to AC distribution systems.	<b>N/A</b>
W.1.1	Floating circuits		<b>N/A</b>
W.1.2	Earthed circuits		<b>N/A</b>
W.2	Interconnection of several equipments		<b>N/A</b>
W.2.1	Isolation		<b>N/A</b>
W.2.2	Common return, isolated from earth		<b>N/A</b>
W.2.3	Common return, connected to protective earth		<b>N/A</b>
<b>X</b>	<b>ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)</b>		<b>N/A</b>
X.1	Determination of maximum input current	No such device used.	<b>N/A</b>
X.2	Overload test procedure		<b>N/A</b>

<b>Y</b>	<b>ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)</b>		<b>N/A</b>
Y.1	Test apparatus .....	Does not produce UV radiation.	<b>N/A</b>
Y.2	Mounting of test samples .....	Not applicable.	<b>N/A</b>
Y.3	Carbon-arc light-exposure apparatus .....	Not applicable.	<b>N/A</b>
Y.4	Xenon-arc light exposure apparatus .....	Not applicable.	<b>N/A</b>

<b>Z</b>	<b>ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)</b>		<b>N/A</b>
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IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict
<b>AA</b>	<b>ANNEX AA, MANDREL TEST (see 2.10.5.8)</b>		<b>N/A</b>
<b>BB</b>	<b>ANNEX BB, CHANGES IN THE SECOND EDITION</b>		—
<b>CC</b>	<b>ANNEX CC, Evaluation of integrated circuit (IC) current limiters</b>		<b>N/A</b>
CC.1	General		<b>N/A</b>
CC.2	Test program 1.....:	Not applicable.	<b>N/A</b>
CC.3	Test program 2.....:	Not applicable.	<b>N/A</b>
CC.4	Test program 3.....:	Not applicable.	<b>N/A</b>
CC.5	Compliance.....:	Not applicable.	<b>N/A</b>
<b>DD</b>	<b>ANNEX DD, Requirements for the mounting means of rack-mounted equipment</b>		<b>N/A</b>
DD.1	General	Equipment is not rack-mounted.	<b>N/A</b>
DD.2	Mechanical strength test, variable N.....:	Not applicable.	<b>N/A</b>
DD.3	Mechanical strength test, 250N, including end stops.....:	Not applicable.	<b>N/A</b>
DD.4	Compliance.....:	Not applicable.	<b>N/A</b>
<b>EE</b>	<b>ANNEX EE, Household and home/office document/media shredders</b>		<b>N/A</b>
EE.1	General	Equipment is not a shredder.	<b>N/A</b>
EE.2	Markings and instructions		<b>N/A</b>
	Use of markings or symbols.....:	Not applicable.	<b>N/A</b>
	Information of user instructions, maintenance and/or servicing instructions.....:	Not applicable.	<b>N/A</b>
EE.3	Inadvertent reactivation test.....:	Not applicable.	<b>N/A</b>
EE.4	Disconnection of power to hazardous moving parts:		<b>N/A</b>
	Use of markings or symbols.....:	Not applicable.	<b>N/A</b>
EE.5	Protection against hazardous moving parts		<b>N/A</b>
	Test with test finger (Figure 2A) .....	Not applicable.	<b>N/A</b>
	Test with wedge probe (Figure EE1 and EE2) .....	Not applicable.	<b>N/A</b>



IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	TABLE: List of critical components					P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity <sup>1)</sup>	
Enclosure, Case	Prismier Mechanical Contract manufacturing or equivalent.	2005005; 2005006; 2005007; 2005008; 2005011; 2005012; <b>2005033; 2005034, 2005122; 2005123, 2005124; 2005128</b>	Wonderloy PC-510 Min. Thickness:2.54mm (0.1inch); V-0	UL 94	UL	
Rear Panel, Touch Writer and Scan	Prismier Mechanical Contract manufacturing or equivalent	1005190 <b>1005117</b>	<b>0.09" Wonderloy PC-510; V-0</b>	UL 94	UL	
Power Adapter (limited power source) <b>optional</b>	XP Power or equivalent.	AHM85PS24 or equivalent.	Input 100-240V ~1.0A, 50/60Hz Output +24V DC, 3.5A	UL60601 -1	cULus	
<b>Power adapter (limited power source)</b>	<b>Bridgepower Corp (SLpower) or equivalent.</b>	<b>TE60B2449F02 or equivalent.</b>	<b>Input 100-240V ~1.5A, 50/60Hz Output +24V DC, 2.7A</b>	<b>UL60950 -1</b>	<b>cULus</b>	
Li-ion Battery	Totex mfg. Inc	3INR19/66-2	Li-ion battery 10.8V;6.7Ah;72.0W h	UL 2054	UL	
Scanner	Peripheral Dynamics, Inc or equivalent	105-8559-211 or equivalent	24Vdc+/-5%;30W; 0°C - 50°C	-	None; tested as part of the equipment.	
2.5" Thermal Printer (x2)	Seiko or equivalent	DPU-D2-00A-E or equivalent	+5to +9Vdc @ 30W; -10°C - 50°C	-	None; tested as part of the equipment.	
<b>Supplementary information:</b> <sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.						

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>1.5.1</b>	<b>TABLE: Opto Electronic Devices</b>	<b>N/A</b>
Manufacturer ..... Type ..... Separately tested ..... Bridging insulation ..... External creepage distance ..... Internal creepage distance ..... Distance through insulation ..... Tested under the following conditions ..... Input ..... Output .....		
supplementary information		
Not applicable.		

<b>1.6.2</b>	<b>TABLE: Electrical data (in normal conditions)</b>						<b>P</b>
U (V)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status	
24 Vd.c.	<b>2.4</b>	2.4	-	-	-	Verity Scan	
24 Vd.c.	<b>1.4</b>	2.4	-	-	-	Verity Touch Writer	
<b>24 Vd.c.</b>	<b>1.1</b>	<b>2.4</b>	-	-	-	<b>Verity Touch with Access (1)</b>	
<b>24 Vd.c.</b>	<b>1.4</b>	<b>2.4</b>	-	-	-	<b>Verity Controller</b>	
<b>24 Vd.c.</b>	<b>2.2</b>	<b>2.4</b>	-	-	-	<b>Verity ScanModified</b>	
Supplementary information: Verity Scan and Touch Writer; Lab environmental conditions: 2014-11-07:19.8°C@50%RH Tested by: D. Kozdereli/T.Macias <b>Verity Touch with Access and verity Controller; Lab environmental conditions: 2015-08-25:22.3°C@53%RH Tested by: D. Kozdereli</b> <b>Verity Touch Scan; Lab environmental conditions: 2015-10-22: 22.0°C@62%RH Tested by: D. Kozdereli</b> <b>1) The Verity Touch and Verity Print were not tested; see general product summary.</b>							

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>2.1.1.5 c) 1)</b>	<b>TABLE: max. V, A, VA test</b>				<b>N/A</b>
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)	
-	-	-	-	-	
supplementary information:					
Not applicable.					

2.1.1.5 c) 2)	TABLE: stored energy		N/A
Capacitance C (μF)	Voltage U (V)	Energy E (J)	
-	-	-	
supplementary information:			
Not applicable.			

2.2	TABLE: evaluation of voltage limiting components in SELV circuits			N/A
Component (measured between)		max. voltage (V) (normal operation)		Voltage Limiting Components
		V peak	V d.c.	
-		-	-	-
Fault test performed on voltage limiting components		Voltage measured (V) in SELV circuits (V peak or V d.c.)		
-		-		
supplementary information:				
Not applicable.				

2.5	TABLE: Limited power sources					N/A
Circuit output tested:						
Note: Measured Uoc (V) with all load circuits disconnected:						
Component s	Sample No.	Uoc (V)	I <sub>sc</sub> (A)		VA	
			Meas.	Limit	Meas.	Limit
-	-	-	-	-	-	-
supplementary information:						
Not applicable.						

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

2.10.2	Table: working voltage measurement				N/A
Location		RMS voltage (V)	Peak voltage (V)	Comments	
-		-	-	-	
supplementary information:					
Not applicable.					

<b>2.10.3 and 2.10.4</b>	<b>TABLE: Clearance and creepage distance measurements</b>						<b>N/A</b>
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)	
-	-	-	-	-	-	-	
Supplementary information:							
Not applicable.							

<b>2.10.5</b>	<b>TABLE: Distance through insulation measurements</b>					<b>N/A</b>
Distance through insulation (DTI) at/of:	U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm)	
-	-	-	-	-	-	
Supplementary information:						
Not applicable.						

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.3.8	TABLE: Batteries								N/A
The tests of 4.3.8 are applicable only when appropriate battery data is not available									N/A
Is it possible to install the battery in a reverse polarity position?					Battery connector is keyed.				N/A
	Non-rechargeable batteries			Rechargeable batteries					
	Discharging		Un-intentional charging	Charging		Discharging		Reversed charging	
	Meas. current	Manuf. Specs.		Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	-	-	-	-	-	-	-	-	-
Max. current during fault condition	-	-	-	-	-	-	-	-	-
Test results:									Verdict
- Chemical leaks									N/A
- Explosion of the battery									N/A
- Emission of flame or expulsion of molten metal									N/A
- Electric strength tests of equipment after completion of tests									N/A
Supplementary information: Battery is separately approved device.									

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.3.8	TABLE: Batteries	N/A
Battery category .....: (Lithium, NiMh, NiCad, Lithium Ion ...)		
Manufacturer .....		
Type / model .....		
Voltage .....		
Capacity .....mAh		
Tested and Certified by (incl. Ref. No.).....		
Circuit protection diagram:		
Battery is separately approved device.		

MARKINGS AND INSTRUCTIONS (1.7.13 )	
Location of replaceable battery	
Language(s) .....:	
Close to the battery .....:	
In the servicing instructions .....:	
In the operating instructions .....:	

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements				P		
	Supply voltage (V d.c.) .....	22.89	24.00	25.00	—		
	Ambient T <sub>min</sub> (°C) .....	22	20	22	—		
	Ambient T <sub>max</sub> (°C) .....	24	24	24	—		
Maximum measured temperature T of part/at.....:		T (°C)			Allowed T <sub>max</sub> (°C)		
		1	2	3			
	Ambient	23/40	23/40	23/40	Information only.		
	Surface Select button	24/41	24/41	24/41	85°C TB4C		
	Surface Help button	24/41	24/41	24/41	85°C TB4C		
	Surface Move button	36/53	25/42	24/41	85°C TB4C		
	Surface small printer interior (metal)	36/53	24/41	24/41	60°C TB4C		
	Ambient inside	30/47	28/45	29/46	Information only.		
	Ambient input	31/48	30/47	30/47	Information only.		
	Inside surface touch access USB	30/47	29/46	29/46	70°C TB4C		
	Inside ambient	30/47	29/46	29/46	Information only.		
	Surface printer metal	37/54	36/53	36/53	60°C TB4C		
	Surface on/off button	27/44	26/43	27/44	85°C TB4C		
	Surface top cover	24/41	24/41	23/40	85°C TB4C		
	Surface Poll button	27/44	26/43	26/43	85°C TB4C		
	Surface metal handle	23/40	24/41	22/39	55°C TB4C		
	Surface handle rubber	23/40	24/41	22/39	85°C TB4C		
	Tablet ambient coin cell	46/63	45/62	46/63	60°C MFR (1)		
	Tablet Surface switch	36/52	35/52	35/52	70°C TB4C		
	Tablet surface back	32/49	31/48	31/48	95°C TB4C		
	Tablet surface touch screen	34/51	33/50	33/50	65°C TB4C		
	Battery connection	35/52	34/51	34/51	85°C TB4C		
Supplementary information: Verity Touch Writer Test 1[2014-11-10; 19.8°C@46%RH], Tests 2 and 3 [2014-1111; 20.3°C@45%RH], Normal conditions. Test by Tomas Macias. TB4C = Table 4C; MFR = Manufacturer							
1) Based on the manufacturer temperature characteristics the RTC (real time clock) battery has descreased performance at higher temperatures. There is no safety risk.							
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
-	-	-	-	-	-	-	-
Supplementary information: Not applicable.							

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements				P	
	Supply voltage (V d.c.) .....	22.89	24.00	25.00	—	
	Ambient T <sub>min</sub> (°C) .....	22	20	22	—	
	Ambient T <sub>max</sub> (°C) .....	24	24	24	—	
Maximum measured temperature T of part/at.....:		T (°C)			Allowed T <sub>max</sub> (°C)	
		4	5	6		
Ambient scan	24/41	25/42	24/41	Information only.		
Surface Poll button	22/39	23/40	22/39	85°C TB4C		
Surface on button	29/46	28/45	28/45	85°C TB4C		
Handle surface metal	25/42	25/42	24/41	60°C TB4C		
Surface handle rubber	24/41	24/41	24/41	85°C TB4C		
Ambient input	33/50	32/49	33/50	Information only.		
Ambient scanner	34/51	33/50	34/51	Information only.		
Metal surface under scanner	33/50	33/50	33/50	70°C TB4C		
Audio junction	31/48	30/47	30/47	70°C TB4C		
Scan cover	26/43	25/42	25/42	95°C TB4C		
Tablet ambient coin cell battery	47/64	46/63	47/64	60°C MFR (1)		
Tablet surface switch	35/52	34/51	34/51	70°C TB4C		
Tablet surface battery connector	38/55	34/54	37/54	95°C TB4C		
Surface interface	41/58	40/57	40/57	60°C TB4C		
Surface touch screen	35/52	35/52	35/52	65°C TB4C		
tablet back surface	31/48	30/47	31/48	95°C TB4C		
Supplementary information: Verity Scan Test 4 [2014-11-10; 19.8°C@46%RH], Tests 5 and 6 [2014-11-11; 20.3°C@45%RH], Normal conditions. Test by Tomas Macias. TB4C = Table 4C; MFR = Manufacturer						
1) Based on the manufacturer temperature characteristics the RTC (real time clock) battery has decreased performance at higher temperatures. There is no safety risk.						
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	Allowed T <sub>max</sub> (°C)	Insulation class
-	-	-	-	-	-	-
Supplementary information: Not applicable.						



IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements					P
	Supply voltage (V d.c.) .....	22.89	22.89	22.89	22.89	—
	Ambient T <sub>min</sub> (°C) .....	20	20	19	20	—
	Ambient T <sub>max</sub> (°C) .....	21	22	20	22	—
Maximum measured temperature T of part/at.....:		T (°C)				Allowed T <sub>max</sub> (°C)
		7	8	9	10	
	<b>Ambient</b>	23/40	23/40	23/40	23/40	Information only.
	<b>Surface Select button</b>	26/43	25/42	24/41	26/43	85°C TB4C
	<b>Surface Help button</b>	26/43	25/42	24/41	26/43	85°C TB4C
	<b>Surface Move button</b>	26/43	25/42	24/41	26/43	85°C TB4C
	<b>Surface small printer interior (metal)</b>	25/42	25/42	24/41	26/43	Information only.
	<b>Ambient inside</b>	28/45	28/45	25/42	30/47	Information only.
	<b>Ambient input</b>	29/46	30/47	25/42	31/48	Information only.
	<b>Inside surface touch access USB</b>	29/46	30/47	25/42	30/47	70°C TB4C
	<b>Inside ambient</b>	28/45	27/44	24/41	29/46	Information only.
	<b>Surface printer metal</b>	35/52	28/45	30/47	38/55	60°C TB4C
	<b>Surface on/off button</b>	26/43	28/45	24/41	28/45	85°C TB4C
	<b>Surface top cover</b>	25/42	25/42	24/41	25/42	85°C TB4C
	<b>Surface Poll button</b>	26/43	27/44	24/41	27/44	85°C TB4C
	<b>Surface metal handle</b>	24/41	24/41	24/41	24/41	55°C TB4C
	<b>Surface handle rubber</b>	24/41	24/41	24/41	24/41	85°C TB4C
	<b>Tablet ambient coin cell</b>	45/62	40/57	39/56	47/64	Information only.
	<b>Tablet Surface switch</b>	37/54	31/58	32/49	39/56	70°C TB4C
	<b>Tablet surface back</b>	31/48	29/46	27/44	32/49	95°C TB4C
	<b>Tablet surface touch screen</b>	34/51	39/56	31/48	35/52	65°C TB4C
	<b>Battery connection</b>	33/50	35/52	33/50	36/53	85°C TB4C

Supplementary information: Verity Touch Writer

Test 7-10 tested by T. Macais on 2014-11-13[19.2°C@24%RH] TB4C = Table 4C

Test 7: SFC Tablet battery short.; Test 8: SFC Tablet connection short Test 9 SFC Tablet USB short  
TEST10 Printer USB short

Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
-	-	-	-	-	-	-	-

Supplementary information: Not applicable.

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements				P		
	Supply voltage (V d.c.) .....:	22.89	22.89	22.89	—		
	Ambient T <sub>min</sub> (°C) .....:	20	20	20	—		
	Ambient T <sub>max</sub> (°C) .....:	22	21	22	—		
Maximum measured temperature T of part/at.....:		T (°C)			Allowed T <sub>max</sub> (°C)		
		11	12	13			
	Ambient	23/40	23/40	23/40	Information only.		
	Surface Select button	25/42	25/42	25/42	85°C TB4C		
	Surface Help button	25/42	25/42	25/42	85°C TB4C		
	Surface Move button	26/43	26/43	26/43	85°C TB4C		
	Surface small printer interior (metal)	25/42	26/43	26/43	Information only.		
	Ambient inside	29/46	30/47	30/47	Information only.		
	Ambient input	31/48	31/48	31/48	Information only.		
	Inside surface touch access USB	30/47	30/47	30/47	70°C TB4C		
	Inside ambient	30/47	30/47	28/45	Information only.		
	Surface printer metal	37/54	37/54	37/54	60°C TB4C		
	Surface on/off button	27/44	27/44	27/44	85°C TB4C		
	Surface top cover	24/41	24/41	24/41	85°C TB4C		
	Surface Poll button	27/44	27/44	27/44	85°C TB4C		
	Surface metal handle	23/40	24/41	24/41	55°C TB4C		
	Surface handle rubber	24/41	24/41	24/41	85°C TB4C		
	Tablet ambient coin cell	47/64	47/64	47/64	Information only.		
	Tablet Surface switch	38/55	38/55	38/55	70°C TB4C		
	Tablet surface back	32/49	32/49	32/49	95°C TB4C		
	Tablet surface touch screen	34/51	34/51	34/51	65°C TB4C		
	Battery connection	35/52	35/52	35/52	85°C TB4C		
Supplementary information: Verty Touch Writer TB4C = Table 4C							
Tested by T.Macais 2014-11-12 19.1°C@33%RH							
TEST 11: SFC Audio short TEST12: USB1 (compartment) short; TEST13: USB2 (compartment) short							
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
-	-	-	-	-	-	-	-
Supplementary information:							
Not applicable.							

IEC 60950-1				
Clause	Requirement + Test	Result - Remark		Verdict

4.5	TABLE: Thermal requirements					P		
	Supply voltage (V d.c.) .....:	22.89	22.89	22.89	22.89	—		
	Ambient T <sub>min</sub> (°C) .....:	20	20	19	20	—		
	Ambient T <sub>max</sub> (°C) .....:	21	22	20	22	—		
Maximum measured temperature T of part/at.....:		T (°C)				Allowed T <sub>max</sub> (°C)		
		14	15	16	17			
	Ambient scan	25/42	24/41	25/42	26/43	Information only.		
	Surface Poll button	23/40	23/40	23/40	24/41	85°C TB4C		
	Surface on button	28/45	29/46	25/42	29/46	85°C TB4C		
	Handle surface metal	30/47	25/42	24/41	26/43	60°C TB4C		
	Surface handle rubber	29/46	24/41	24/41	25/42	85°C TB4C		
	Ambient input	32/49	31/48	26/43	34/51	Information only.		
	Ambient scanner	31/48	33/50	25/42	35/52	Information only.		
	Metal surface under scanner	31/48	35/52	25/42	34/51	70°C TB4C		
	Audio junction	30/47	30/47	26/43	31/48	70°C TB4C		
	Scan cover	26/43	32/49	24/41	26/43	95°C TB4C		
	Tablet ambient coin cell battery	46/63	43/60	41/58	48/65	Information only.		
	Tablet surface switch	36/53	30/47	32/49	35/52	70°C TB4C		
	Tablet surface battery connector	36/53	39/56	35/52	39/56	95°C TB4C		
	Surface interface	38/55	34/51	30/47	41/58	60°C TB4C		
	Surface touch screen	35/52	41/58	33/50	36/53	65°C TB4C		
	tablet back surface	30/47	30/47	28/45	32/49	95°C TB4C		
Supplementary information: Verity Scan    Test by T. Macais								
Tests 14-16: 2014-11-13, 19.2°C@24%RH; Test 17: 2014-11-12, 19.1°C@45%RH    TB4C = Table 4C								
Test 14: SFC Tablet battery short.; Test 15: SFC Tablet connection short    Test 16: SFC Tablet USB short.								
Test 17: SFC Audio port short								
Temperature T of winding:		t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
-		-	-	-	-	-	-	-
Supplementary information:								
Not applicable.								

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements				P			
	Supply voltage (V d.c.) .....	22.89	22.89	—				
	Ambient T <sub>min</sub> (°C) .....	22	20	—				
	Ambient T <sub>max</sub> (°C) .....	24	22	—				
Maximum measured temperature T of part/at.....:		T (°C)			Allowed T <sub>max</sub> (°C)			
		18	19					
Ambient scan		26/43	26/43	Information only.				
Surface Poll button		27/44	25/42	85°C TB4C				
Surface on button		29/46	29/46	85°C TB4C				
Handle surface metal		26/43	25/42	60°C TB4C				
Surface handle rubber		25/42	25/42	85°C TB4C				
Ambient input		34/51	34/51	Information only.				
Ambient scanner		35/52	35/52	Information only.				
Metal surface under scanner		34/51	34/51	70°C TB4C				
Audio junction		31/48	32/49	70°C TB4C				
Scan cover		26/43	26/43	95°C TB4C				
Tablet ambient coin cell battery		48/65	48/65	Information only.				
Tablet surface switch		36/53	35/52	70°C TB4C				
Tablet surface battery connector		39/56	39/56	95°C TB4C				
Surface interface		41/58	41/58	60°C TB4C				
Surface touch screen		36/53	26/53	65°C TB4C				
tablet back surface		32/49	32/49	95°C TB4C				
Supplementary information: Verity Scan Tested by T. Macais TB4C = Table 4C								
Tests18-19: 2014-11-12 19.1°C@33%RH								
TEST18: USB1 (compartment) short; TEST19: USB2 (compartment) short								
Temperature T of winding:		t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
-		-	-	-	-	-	-	-
Supplementary information:								
Not applicable.								

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements			P			
	Supply voltage (V d.c.) .....	22.89	25	—			
	Ambient T <sub>min</sub> (°C) .....	22	22	—			
	Ambient T <sub>max</sub> (°C) .....	24	24	—			
Maximum measured temperature T of part/at.....:		T (°C)		Allowed T <sub>max</sub> (°C)			
Verity Controller		20	21				
Ambient scan		23/40	23/40	Information only.			
Surface Poll button		26/43	26/43	85°C TB4C			
Surface on button		29/46	28/45	85°C TB4C			
Ambient input		32/49	32/49	Information only.			
Ambient USB		35/52	36/53	Information only.			
Ambient inside		29/46	30/47	Information only.			
Surface button		29/46	29/46	85°C TB4C			
Tablet surface		24/41	35/52	95°C TB4C			
Surface handle		23/40	24/41	85°C TB4C			
Surface handle metal		23/40	24/41	60°C TB4C			
Supplementary information: Verity Controller Tested by: Deniz Kozdereli TB4C = Table 4C Tests 20-21 [2015-08-20: 21.9°C@51%RH]							
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
-	-	-	-	-	-	-	-
Supplementary information: Not applicable.							

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements			P			
	Supply voltage (V d.c.) .....	22.89	25	—			
	Ambient T <sub>min</sub> (°C) .....	22	22	—			
	Ambient T <sub>max</sub> (°C) .....	24	24	—			
Maximum measured temperature T of part/at.....:		T (°C)		Allowed T <sub>max</sub> (°C)			
Verity Touch with Access		22	23				
Ambient		23/40	23/40	Information only.			
Surface Select button		25/42	25/42	75°C TB4C			
Surface Help button		25/42	25/42	75°C TB4C			
Surface Move button		26/43	26/43	75°C TB4C			
Surface inner button		29/49	30/47	85°C TB4C			
Ambient input		38/55	38/55	Information only.			
USB metal Surface		37/54	38/55	70°C TB4C			
Surface Touch with Access panel		25/42	25/42	75°C TB4C			
Inside surface touch with access USB		30/47	31/48	85°C TB4C			
Inside ambient		30/47	31/48	Information only.			
Surface on off		30/47	31/48	85°C TB4C			
Surface poll button		30/47	30/47	85°C TB4C			
Surface metal		24/41	24/41	60°C TB4C			
Surface rubber handle		36/53	36/53	85°C TB4C			
Tablet surface		24/41	24/41	95°C TB4C			
Supplementary information: Verity Touch with Access TB4C = Table 4C							
Tests 22/23: 2015-08-20: 21.9°C@51%RH							
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
-	-	-	-	-	-	-	-
Supplementary information:							
Not applicable.							

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements				P		
	Supply voltage (V d.c.) .....:	22.89	22.89	22.89	—		
	Ambient T <sub>min</sub> (°C) .....:	23	23	23	—		
	Ambient T <sub>max</sub> (°C) .....:	24	24	24	—		
Maximum measured temperature T of part/at.....:		T (°C)			Allowed T <sub>max</sub> (°C)		
Verity Controller		24	25	26			
Ambient scan		23/40	23/40	23/40	Information only.		
Surface Poll button		26/43	26/43	26/43	85°C TB4C		
Surface on button		29/46	28/45	28/45	85°C TB4C		
Ambient input		32/49	32/49	31/48	Information only.		
Ambient USB		35/52	36/53	35/52	Information only.		
Ambient inside		29/46	30/47	30/47	Information only.		
Surface button		29/46	29/46	29/46	85°C TB4C		
Tablet surface		36/53	35/52	35/52	95°C TB4C		
Surface handle		23/40	23/40	23/40	85°C TB4C		
Surface handle metal		23/40	23/40	23/40	60°C TB4C		
Supplementary information: Verity Controller TB4C = Table 4C Tested byD. Kozdereli 2015-08-20 21.9°C@51%RH]; TEST 24: SFC Short circuit USB3 port 1 TEST 25 Short circuit USB3 port 2; TEST26: Short circuit							
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
-	-	-	-	-	-	-	-
Supplementary information: Not applicable.							

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements			P			
	Supply voltage (V d.c.) .....:	22.89	22.89	—			
	Ambient T <sub>min</sub> (°C) .....:	23	22	—			
	Ambient T <sub>max</sub> (°C) .....:	25	24	—			
Maximum measured temperature T of part/at.....:		T (°C)		Allowed T <sub>max</sub> (°C)			
Verity Touch with Access		27	28				
Ambient		23/40	23/40	Information only.			
Surface Select button		25/42	25/42	75°C TB4C			
Surface Help button		25/42	25/42	75°C TB4C			
Surface Move button		26/43	26/43	75°C TB4C			
Surface inner button		29/46	29/46	85°C TB4C			
Ambient input		38/55	38/55	Information only.			
USB metal Surface		38/55	36/53	70°C TB4C			
Surface Touch Access panel		30/47	25/42	75°C TB4C			
Inside surface touch access USB		29/46	30/47	85°C TB4C			
Inside ambient		31/48	29/46	Information only.			
Surface on off		29/46	30/47	85°C TB4C			
Surface poll button		23/40	29/46	85°C TB4C			
Surface metal		35/52	24/41	60°C TB4C			
Surface rubber handle		35/52	35/52	85°C TB4C			
Tablet surface		23/40	24/41	95°C TB4C			
Supplementary information: Verity Touch with Access TB4C = Table 4C							
Tests 27/28: 2015-08-24: 22.2°C@54%RH							
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
-	-	-	-	-	-	-	-
Supplementary information:							
Not applicable.							



IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

4.5	TABLE: Thermal requirements				P		
	Supply voltage (V d.c.) .....	22.89	25	22.89	—		
	Ambient T <sub>min</sub> (°C) .....	22	22	23	—		
	Ambient T <sub>max</sub> (°C) .....	23	23	24	—		
Maximum measured temperature T of part/at.....:		T (°C)			Allowed T <sub>max</sub> (°C)		
Verity Scan (modified)		29	30	31			
Ambient		23/40	23/40	23/40	Information only.		
Surface On button		28/45	29/46	28/45	85°C TB4C		
Surface poll button		28/45	28/45	27/44	85°C TB4C		
Surface handle metal		24/41	24/41	24/41	60°C TB4C		
Surface handle rubber		24/41	24/41	24/41	85°C TB4C		
Ambient input		32/49	32/49	31/48	Information only.		
Ambient scanner		30/47	31/48	30/47	Information only.		
Surface under scanner metal		29/46	30/47	29/46	70°C TB4C		
Surface audio junction		31/48	32/49	32/49	70°C TB4C		
Surface cover scan		26/43	26/43	26/43	85°C TB4C		
USB		35/52	34/51	34/51	95°C TB4C		
Supplementary information: Verity Scan (modified) TB4C = Table 4C Tested by D. Kozdereli 2015-10-21: 22.3°C@54%RH (tests 29 and 30); 22.0°C@62%RH (test 31) TEST 29 and 30: normal condtions Test 31: Single fault USB short circuit							
Temperature T of winding:	t <sub>1</sub> (°C)	R <sub>1</sub> (Ω)	t <sub>2</sub> (°C)	R <sub>2</sub> (Ω)	T (°C)	Allowed T <sub>max</sub> (°C)	Insulation class
-	-	-	-	-	-	-	-
Supplementary information: Not applicable.							

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>4.5.5</b>	<b>TABLE: Ball pressure test of thermoplastic parts</b>		<b>N/A</b>
	Allowed impression diameter (mm) .....	≤ 2 mm	—
Part		Test temperature (°C)	Impression diameter (mm)
-		-	-
Supplementary information: Not applicable.			

<b>4.7</b>	<b>TABLE: Resistance to fire</b>					<b>N/A</b>
Part	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence	
-	-	-	-	-	-	
Supplementary information: Not applicable.						

5.1	TABLE: touch current measurement			N/A
Measured between:	Measured (mA)	Limit (mA)	Comments/conditions	
-	-	-	-	
supplementary information:				
Not applicable.				

5.2	TABLE: Electric strength tests, impulse tests and voltage surge tests			N/A
Test voltage applied between:		Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
-		-	-	-
Supplementary information: Not applicable.				

IEC 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

<b>5.3</b>	<b>TABLE: Fault condition tests</b>					<b>P</b>
	Ambient temperature (°C) .....				23	—
	Power source for EUT: Manufacturer, model/type, output rating .....				TDK Lambda GEN1500W	—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
Verity Scan	USB 1 short circuit	22.8	01:27:00	-	-	Equipment continued to operate normally.
Verity Scan	USB 2short circuit	22.8	01:17:00	-	-	Equipment continued to operate normally.
Verity Scan	RCA port short circuit	22.8	01:18:00	-	-	Equipment continued to operate normally.
Verity Scan	Battery short circuit	22.8	01:02:00	-	-	Equipment continued to operate normally.
Verity Scan	Tablet UBS short circuit	22.8	01:02:00	-	-	Equipment continued to operate normally.
Verity Scan	Tablet connector short circuit	22.8	01:03:00	-	-	Equipment continued to operate normally.
Verity Touch Writer	Battery short circuit	22.8	01:02:00	-	-	Equipment continued to operate normally.
Verity Touch Writer	USB 1 short circuit	22.8	01:27:00	-	-	Equipment continued to operate normally.
Verity Touch Writer	USB 2short circuit	22.8	01:17:00	-	-	Equipment continued to operate normally.
Verity Touch Writer	Printer short circuit	22.8	01:07:00	-	-	Equipment continued to operate normally.
Verity Touch Writer	RCA port short circuit	22.8	01:18:00	-	-	Equipment continued to operate normally.
Verity Touch Writer	Tablet UBS short circuit	-	01:02:00	-	-	Main unit shutdown, Tablet continued to operate normally.
Verity Touch Writer	Tablet connector short circuit	22.8	01:03:00	-	-	Equipment continued to operate normally.
<b>Verity Controller</b>	<b>USB3 port1 short circuit</b>	<b>22.8</b>	<b>01:51:30</b>	<b>-</b>	<b>-</b>	<b>Equipment continued to operate normally.</b>
<b>Verity Controller</b>	<b>USB3 port 2 short circuit</b>	<b>22.8</b>	<b>01:03:00</b>	<b>-</b>	<b>-</b>	<b>Equipment continued to operate normally.</b>
<b>Verity Controller</b>	<b>USB port short circuit</b>	<b>22.8</b>	<b>01:06:00</b>	<b>-</b>	<b>-</b>	<b>Equipment continued to operate normally.</b>
<b>Verity Touch with Access</b>	<b>USB port1 short circuit</b>	<b>22.8</b>	<b>01:02:30</b>	<b>-</b>	<b>-</b>	<b>Equipment continued to operate normally.</b>

IEC 60950-1						
Clause	Requirement + Test			Result - Remark		Verdict
Verity Touch with Access	USB port2 short circuit	22.8	01:38:00	-	-	Equipment continued to operate normally.
Verity Scan*	USB short	25	01:05:00	-	-	Equipment continued to operate normally.
Supplementary information: *New USB						

C.2	TABLE: transformers						N/A
Loc.	Tested insulation	Working voltage peak / V  (2.10.2)	Working voltage rms / V  (2.10.2)	Required electric strength  (5.2)	Required clearance / mm  (2.10.3)	Required creepage distance / mm  (2.10.4)	Required distance thr. insul.  (2.10.5)
-	-	-	-	-	-	-	-
Loc.	Tested insulation			Test voltage/ V	Measured clearance / mm	Measured creepage dist./ mm	Measured distance thr. insul. / mm; number of layers
-	-			-	-	-	-
supplementary information:							
Not applicable.							

C.2	TABLE: transformers	N/A
Transformer		

**List of test equipment used:**

A completed list of used test equipment shall be provided in the Test Reports when a Manufacturer Testing Laboratory according to TMP/CTF stage 1 or WMT/CTF stage 2 procedure has been used.

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Calibration date
All	Lab environment	1801/Weather Station	-	2014-05-29 2015-05-29
1.6.2; 4.5	Input Current	2157/ Power Supply, DC	0-30 Vd.c.	CBU
1.6.2	Input current; Voltage	1654/ Multimeter	0-5A; 0-30Vdc	2015-04-30
1.6.2	Input current	1687/Cap/Leakage Current Switch Box	-	2015-01-24
1.6.2	Input current	2007/Cap/Leakage Current Switch Box	-	2015-07-15
1.6.2	Input Current	1330/1883 / AC Power supply	0-270 V AC	CBU
4.5	Thermal	2000/Data Acquisition	-	2015-01-20
4.5	Thermal	1708/20-Channel Multiplexer Card	-	2014-11-20
4.5	Thermal	0873/20-Channel Multiplexer Card	-	2015-06-10
4.5	Thermal	1832/Power Supply	0-30 Vd.c.	CBU
4.5	Thermal	2157/ Power Supply	0-30 Vd.c.	CBU
4.5	Thermal	2076/Data Acquisition Unit	-	2015-10-27
4.5	Thermal	2038/20-Channel Multiplexer Card	-	2016-02-18
4.5	Thermal	0571/20-Channel Multiplexer Card	-	2015-09-29
4.5	Thermal	1688/Cap/Leakage Current Switch Box	-	2016-07-09
4.5	Thermal	2086/Multimeter	0-5A; 0-30Vdc	2016-04-20
4.5	Thermal	170620-Channel Multiplexer Card	-	2016-01-19
4.5	Thermal	2162/Data Acquisition Unit	-	2016-10-09
4.2.5	Impact test	1651/Steel Ball, 50mm, 500g	-	2008-12-15 (ICO)
4.2.5	Impact test	2058/Guide Tube, Impact Test	-	2013-05-16 (ICO)
4.2; 1.7.11	Steady force; Durability	1891/Stop Watch		2014-04-08
4.2.4	Steady force	2003/ Force Gauge	0-300N	2014-11-07
4.3.2	Handels	G001/Force Gauge	0-30 lbf	2014-05-16
2.1.1.1; 4.2	Access to energized parts; Steady force	0358/ Safety Test Probe Set	-	2012-09-01 (ICO)
4.1	Stability	1740/Digi-Level Protractor	-	2014-03-11